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Study Title

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

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GOOD LABORATORY PRACTICE STATEMENT

This study was conducted according to U.S. Environmental Protection Agency (EPA FIFRA/TSCA) "Good Laboratory Practice Standards; Final Rule" (40 CFR Part 160/792), the Organization for Economic Cooperation and Development (OECD) "Principles of Good Laboratory Practice" Environment Monograph No. 45 and the Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF) "Good Laboratory Practice Standards" (59 NohSan No. 3850). Any areas of noncompliance are documented in the study record. No deviations existed that significantly affected the validity of the study.

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE OF CONTENTS

SUBJECT		PAGE
I.	SUMMARY AND CONCLUSION	25
A.	Methods	25
B.	Results	28
B.1.	P1 Generation Rats	28
B.2.	F1 Generation Rats/F2 Generation Pups	30
C.	Conclusion	32
II.	DESCRIPTION OF TEST PROCEDURES	34
A.	Conduct of Study	34
A.1.	Sponsor	34
A.2.	Testing Facility	34
A.3.	Study Number	34
A.4.	Purpose of the Study	34
A.5.	Study Design	34
A.6.	Regulatory Compliance	34
A.7.	Ownership of the Study	35

SUBJECT		PAGE
A.8.	Study Monitor	35
A.9.	Scientific Advisor	35
A.10.	Study Director	35
A.11.	Technical Performance	35
A.12.	Report Preparation	35
A.13.	Report Review	35
A.14.	Date Protocol Signed	35
A.15.	Dates of Technical Performance	36
A.16.	Records Maintained	36
B.	Test Substance Information	37
B.1.	Description	37
B.2.	Lot Number	37
B.3.	Date Received and Storage Conditions	37
B.4.	Special Handling Instructions	37
C.	Carrier Information	37
C.1.	Description	37
C.2.	Date Received and Storage Conditions	37
C.3.	Special Handling Instructions	37
C.4.	Analysis of Purity	37
D.	Test Substance Preparation	38
D.1.	Sample Information	38
D.2.	Analytical Results	38

SUBJECT		PAGE
E.	Test System	39
E.1.	Species	39
E.2.	Strain	39
E.3.	Supplier (Source)	39
E.4.	Sex	39
E.5.	Rationale for Test System	39
E.6.	Test System Data	40
E.7.	Method of Randomization	40
E.8	System of Identification	40
F.	Husbandry	41
F.1.	Research Facility Registration	41
F.2.	Study Rooms	41
F.3.	Housing	41
F.4.	Lighting	41
F.5.	Sanitization	42
F.6.	Feed	42
F.7.	Feed Analysis	42
F.8.	Water	42
F.9.	Water Analysis	42
F.10.	Bedding	43
F.11.	Bedding Analysis	43
G.	Methods	43

SUBJECT		PAGE
G.1.	Dosage Administration	43
G.2.	Rationale for Dosage Selection	45
G.3.	Route of Administration	46
G.4.	Rationale for Route of Administration	46
G.5.	Frequency of Administration	46
G.6.	Length of Study	47
G.7.	Method of Study Performance	47
G.8.	Gross Necropsy	49
G.9.	Statistical Analysis	54
III.	RESULTS - P1 GENERATION MALE RATS	56
A.	Consumed Dosages	56
B.	Mortality and Clinical Observations	56
B.1.	Mortality	56
B.2.	Clinical Observations	56
C.	Body Weights and Body Weight Changes	57
D.	Absolute (g/day) and Relative (g/kg/day) Water Consumption Values	57
E.	Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values	58
F.	Mating and Fertility	58
G.	Necropsy Observations	58
H.	Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight	59

SUBJECT		PAGE
I.	Sperm Evaluation	59
I.1.	Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count	59
I.2.	Cauda Epididymal Sperm Morphology	60
J.	Histopathology	60
K.	Thyroid and Pituitary Hormone Analyses	61
IV.	RESULTS - P1 GENERATION FEMALE RATS	62
A.	Consumed Dosages	62
B.	Mortality and Clinical Observations	62
B.1.	Mortality	62
B.2.	Clinical Observations	62
C.	Body Weights and Body Weight Changes	63
D.	Absolute (g/day) and Relative (g/kg/day) Water Consumption Values	63
E.	Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values	63
F.	Estrous Cycling, Mating and Fertility	64
G.	Necropsy Observations	64
H.	Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight	64
I.	Natural Delivery and Litter Observations	65
J.	Pup Clinical and Necropsy Observations From Birth to Day 21 Postpartum	65
K.	Organ Weights - F1 Generation Pups	66

SUBJECT		PAGE
L.	Histopathology - P1 Generation Female Rats and F1 Generation Pups	66
L.1.	P1 Generation Female Rats	66
L.2.	F1 Generation Pups	67
M.	Thyroid and Pituitary Hormone Analyses - P1 Generation Female Rats and F1 Generation Pups	69
M.1.	P1 Generation Female Rats	69
M.2.	F1 Generation Pups	69
V.	RESULTS - F1 GENERATION MALE RATS	71
A.	Consumed Dosages	71
B.	Mortality and Clinical Observations	71
B.1.	Mortality	71
B.2.	Clinical Observations	72
C.	Body Weights and Body Weight Changes	72
D.	Absolute (g/day) and Relative (g/kg/day) Water Consumption Values	72
E.	Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values	73
F.	Sexual Maturation	73
G.	Mating and Fertility	73
H.	Necropsy Observations	74
I.	Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight	74
J.	Sperm Evaluation	75

SUBJECT		PAGE
J.1.	Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count	75
J.2.	Cauda Epididymal Sperm Morphology	75
K.	Histopathology - F1 Generation Male Rats	75
L.	Thyroid and Pituitary Hormone Analyses - F1 Generation Male Rats	76
VI.	RESULTS - F1 GENERATION FEMALE RATS	77
A.	Consumed Dosages	77
B.	Mortality and Clinical Observations	77
B.1.	Mortality	77
B.2.	Clinical Observations	78
C.	Body Weights and Body Weight Changes	78
D.	Absolute (g/day) and Relative (g/kg/day) Water Consumption Values	78
E.	Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values	79
F.	Sexual Maturation, Estrous Cycling, Mating and Fertility	79
G.	Natural Delivery and Litter Observations	80
H.	Necropsy Observations - F1 Generation Female Rats	80
I.	Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight	81
J.	F2 Generation Pup Necropsy Observations	81
K.	Organ Weights - F2 Generation Pups	81
L.	Histopathology - F1 Generation Female Rats and F2 Generation Pups	82
L.1.	F1 Generation Female Rats	82

SUBJECT		PAGE
L.2.	F2 Generation Pups	83
M.	Thyroid and Pituitary Hormone Analyses - F1 Generation Female Rats and F2 Generation Pups	84
M.1.	F1 Generation Female Rats	84
M.2.	F2 Generation Pups	84
REFERENCES		86
APPENDIX A - REPORT FIGURES		88
Figure 1.	Body Weights - Male Rats	89
Figure 2.	Body Weights - Female Rats	90
Figure 3.	Body Weights - F1 Generation Male Rats	91
Figure 4.	Body Weights - F1 Generation Female Rats	92
APPENDIX B - REPORT TABLES - P1 GENERATION MALE RATS		93
Table B1.	Consumed Dosages (mg/kg/day) - Summary - P1 Generation Male Rats	94
Table B2.	Clinical Observations - Summary - P1 Generation Male Rats	96
Table B3.	Body Weights - Summary - P1 Generation Male Rats	98
Table B4.	Body Weight Changes - Summary - P1 Generation Male Rats	100
Table B5.	Absolute Water Consumption Values (g/day) - Summary - P1 Generation Male Rats	102
Table B6.	Relative Water Consumption Values (g/kg/day) - Summary - P1 Generation Male Rats	104
Table B7.	Absolute Feed Consumption Values (g/day) - Summary - P1 Generation Male Rats	106

SUBJECT		PAGE
Table B8.	Relative Feed Consumption Values (g/kg/day) - Summary - P1 Generation Male Rats	108
Table B9.	Mating and Fertility - Summary - P1 Generation Male Rats	110
Table B10.	Necropsy Observations - Summary - P1 Generation Male Rats	111
Table B11.	Terminal Body Weights and Organ Weights - Summary - P1 Generation Male Rats	112
Table B12.	Ratios (%) of Organ Weight to Terminal Body Weight - Summary - P1 Generation Male Rats	114
Table B13.	Ratios (%) of Organ Weights to Brain Weights - Summary - P1 Generation Male Rats	116
Table B14.	Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count - Summary - P1 Generation Male Rats	118
Table B15.	Cauda Epididymal Sperm Morphology - Summary - P1 Generation Male Rats	119
Table B16.	Clinical Observations - Individual Data - P1 Generation Male Rats	120
Table B17.	Body Weights - Individual Data - P1 Generation Male Rats	133
Table B18.	Water Consumption Values - Individual Data - P1 Generation Male Rats	141
Table B19.	Feed Consumption Values - Individual Data - P1 Generation Male Rats	157
Table B20.	Mating and Fertility - Individual Data - P1 Generation Male Rats	165
Table B21.	Necropsy Observations - Individual Data - P1 Generation Male Rats	169

SUBJECT		PAGE
Table B22.	Terminal Body Weights and Organ Weights and Ratios (%) of Organ Weight to Terminal Body Weight - Individual Data - P1 Generation Male Rats	173
Table B23.	Brain Weights and Organ Weights and Ratios (%) of Organ Weight to Brain Weight - Individual Data - P1 Generation Male Rats	185
Table B24.	Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count - Individual Data - P1 Generation Male Rats	197
Table B25.	Cauda Epididymal Sperm Morphology - Individual Data - P1 Generation Male Rats	201
APPENDIX C - REPORT TABLES - P1 GENERATION FEMALE RATS		205
Table C1.	Consumed Dosages (mg/kg/day) - Summary - P1 Generation Female Rats	206
Table C2.	Clinical Observations - Summary - P1 Generation Female Rats	209
Table C3.	Body Weights - Precohabitation - Summary - P1 Generation Female Rats	212
Table C4.	Body Weight Changes - Precohabitation - Summary - P1 Generation Female Rats	213
Table C5.	Maternal Body Weights - Gestation - Summary - P1 Generation Female Rats	214
Table C6.	Maternal Body Weight Changes - Gestation - Summary - P1 Generation Female Rats	215
Table C7.	Maternal Body Weights - Lactation - Summary - P1 Generation Female Rats	216
Table C8.	Maternal Body Weight Changes - Lactation - Summary - P1 Generation Female Rats	217

SUBJECT PAGE

Table C9. Absolute Water Consumption Values (g/day) - Precohabitation - Summary - P1 Generation Female Rats 218

Table C10. Relative Water Consumption Values (g/kg/day) - Precohabitation - Summary - P1 Generation Female Rats 219

Table C11. Maternal Absolute Water Consumption Values (g/day) - Gestation - Summary - P1 Generation Female Rats 220

Table C12. Maternal Relative Water Consumption Values (g/kg/day) - Gestation - Summary - P1 Generation Female Rats 221

Table C13. Maternal Absolute Water Consumption Values (g/day) - Lactation - Summary - P1 Generation Female Rats 222

Table C14. Maternal Relative Water Consumption Values (g/kg/day) - Lactation - Summary - P1 Generation Female Rats 223

Table C15. Absolute Feed Consumption Values (g/day) - Precohabitation - Summary - P1 Generation Female Rats 224

Table C16. Relative Feed Consumption Values (g/kg/day) - Precohabitation - Summary - P1 Generation Female Rats 225

Table C17. Maternal Absolute Feed Consumption Values (g/day) - Gestation - Summary - P1 Generation Female Rats 226

Table C18. Maternal Relative Feed Consumption Values (g/kg/day) - Gestation - Summary - P1 Generation Female Rats 227

Table C19. Maternal Absolute Feed Consumption Values (g/day) - Lactation - Summary - P1 Generation Female Rats 228

Table C20. Maternal Relative Feed Consumption Values (g/kg/day) - Lactation - Summary - P1 Generation Female Rats 229

Table C21. Estrous Cycling, Mating and Fertility - Summary - P1 Generation Female Rats 230

Table C22. Natural Delivery Observations - Summary - P1 Generation Female Rats 232

SUBJECT		PAGE
Table C23.	Litter Observations (Naturally Delivered Pups) - Summary - F1 Generation Litters	233
Table C24.	Clinical Observations From Birth to Day 21 Postpartum - Summary - F1 Generation Pups	236
Table C25.	Necropsy Observations - Summary - P1 Generation Female Rats	238
Table C26.	Terminal Body Weights and Organ Weights - Summary - P1 Generation Female Rats	239
Table C27.	Ratios (%) of Organ Weight to Terminal Body Weight - Summary - P1 Generation Female Rats	240
Table C28.	Ratios (%) of Brain Weight to Organ Weight - Summary - P1 Generation Female Rats	241
Table C29.	Necropsy Observations - Summary - F1 Generation Pups	242
Table C30.	Organ Weights - Summary - F1 Generation Male Pups	244
Table C31.	Organ Weights - Summary - F1 Generation Female Pups	245
Table C32.	Clinical Observations - Individual Data - P1 Generation Female Rats	246
Table C33.	Body Weights - Precohabitation - Individual Data - P1 Generation Female Rats	255
Table C34.	Maternal Body Weights - Presumed Gestation - Individual Data - P1 Generation Female Rats	259
Table C35.	Maternal Body Weights - Lactation - Individual Data - P1 Generation Female Rats	263
Table C36.	Water Consumption Values - Precohabitation - Individual Data - P1 Generation Female Rats	267
Table C37.	Maternal Water Consumption Values - Presumed Gestation - Individual Data - P1 Generation Female Rats	279

SUBJECT		PAGE
Table C38.	Maternal Water Consumption Values - Lactation - Individual Data - P1 Generation Female Rats	283
Table C39.	Feed Consumption Values - Precohabitation - Individual Data - P1 Generation Female Rats	287
Table C40.	Maternal Feed Consumption Values - Presumed Gestation - Individual Data - P1 Generation Female Rats	291
Table C41.	Maternal Feed Consumption Values - Lactation - Individual Data - P1 Generation Female Rats	295
Table C42.	Estrous Cycling and Days in Cohabitation - Individual Data - P1 Generation Female Rats	299
Table C43.	Natural Delivery, Implantation Sites, and Pup Viability and Sex - Individual Data - P1 Generation Female Rats/ F1 Generation Litters	303
Table C44.	Pup Body Weight Litter Averages From Birth to Day 21 Postpartum - Individual Data - F1 Generation Litters	307
Table C45.	Pup Body Weights From Birth to Day 21 Postpartum - Individual Data - F1 Generation Litters	311
Table C46.	Pup Vital Status and Sex From Birth to Day 21 Postpartum - Individual Data - F1 Generation Pups	331
Table C47.	Clinical Observations From Birth to Day 21 Postpartum - Individual Data - F1 Generation Pups	335
Table C48.	Necropsy Observations - Individual Data - P1 Generation Female Rats	339
Table C49.	Terminal Body Weights and Organ Weights and Ratios (%) of Organ Weight to Terminal Body Weight - Individual Data - P1 Generation Female Rats	345
Table C50.	Brain Weights and Organ Weights and Ratios (%) of Organ Weight to Brain Weight - Individual Data - P1 Generation Female Rats	353

SUBJECT		PAGE
Table C51.	Necropsy Observations - Individual Data - F1 Generation Pups	361
Table C52.	Organ Weights - Individual Data - F1 Generation Male Pups	369
Table C53.	Organ Weights - Individual Data - F1 Generation Female Pups	377
APPENDIX D - REPORT TABLES - F1 GENERATION MALE RATS		385
Table D1.	Consumed Dosages (mg/kg/day) - Observation Period - Summary - F1 Generation Male Rats	386
Table D2.	Clinical Observations - Summary - F1 Generation Male Rats	387
Table D3.	Body Weights - Summary - F1 Generation Male Rats	388
Table D4.	Body Weight Changes - Summary - F1 Generation Male Rats	390
Table D5.	Absolute Water Consumption Values (g/day) - Summary - F1 Generation Male Rats	392
Table D6.	Relative Water Consumption Values (g/kg/day) - Summary - F1 Generation Male Rats	393
Table D7.	Absolute Feed Consumption Values (g/day) - Summary - F1 Generation Male Rats	394
Table D8.	Relative Feed Consumption Values (g/kg/day) - Summary - F1 Generation Male Rats	396
Table D9.	Sexual Maturation - Summary - F1 Generation Male Rats	397
Table D10.	Mating and Fertility - Summary - F1 Generation Male Rats	398
Table D11.	Necropsy Observations - Summary - F1 Generation Male Rats	399

SUBJECT		PAGE
Table D12.	Terminal Body Weights and Organ Weights - Summary - F1 Generation Male Rats	400
Table D13.	Ratios (%) of Organ Weight to Terminal Body Weight - Summary - F1 Generation Male Rats	402
Table D14.	Ratios (%) of Organ Weight to Brain Weight - Summary - F1 Generation Male Rats	404
Table D15.	Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count - Summary - F1 Generation Male Rats	406
Table D16.	Cauda Epididymal Sperm Morphology - Summary - F1 Generation Male Rats	407
Table D17.	Clinical Observations - Individual Data - F1 Generation Male Rats	408
Table D18.	Body Weights - Individual Data - F1 Generation Male Rats	420
Table D19.	Water Consumption Values - Individual Data - F1 Generation Male Rats	428
Table D20.	Feed Consumption Values - Individual Data - F1 Generation Male Rats	444
Table D21.	Sexual Maturation - Individual Data - F1 Generation Male Rats	452
Table D22.	Mating and Fertility - Individual Data - F1 Generation Male Rats	453
Table D23.	Necropsy Observations - Individual Data - F1 Generation Male Rats	457
Table D24.	Terminal Body Weights and Organ Weights and Ratios (%) of Organ Weight to Terminal Body Weight - Individual Data - F1 Generation Male Rats	462
Table D25.	Brain Weights and Organ Weights and Ratios (%) of Organ Weight to Brain Weight - Individual Data - F1 Generation Male Rats	474

SUBJECT		PAGE
Table D26.	Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count - Individual Data - F1 Generation Male Rats	486
Table D27.	Cauda Epididymal Sperm Morphology - Individual Data - F1 Generation Male Rats	490
APPENDIX E - REPORT TABLES - F1 GENERATION FEMALE RATS		494
Table E1.	Consumed Dosages (mg/kg/day) - Summary - F1 Generation Female Rats	495
Table E2.	Clinical Observations - Summary - F1 Generation Female Rats	498
Table E3.	Body Weights - Postweaning - Summary - F1 Generation Female Rats	502
Table E4.	Body Weight Changes - Postweaning - Summary - F1 Generation Female Rats	503
Table E5.	Maternal Body Weights - Gestation - Summary - F1 Generation Female Rats	504
Table E6.	Maternal Body Weight Changes - Gestation - Summary - F1 Generation Female Rats	505
Table E7.	Maternal Body Weights - Lactation - Summary - F1 Generation Female Rats	506
Table E8.	Maternal Body Weight Changes - Lactation - Summary - F1 Generation Female Rats	507
Table E9.	Absolute Water Consumption Values (g/day) - Postweaning - Summary - F1 Generation Female Rats	508
Table E10.	Relative Water Consumption Values (g/kg/day) - Postweaning - Summary - F1 Generation Female Rats	509
Table E11.	Maternal Absolute Water Consumption Values (g/day) - Gestation - Summary - F1 Generation Female Rats	510

SUBJECT		PAGE
Table E12.	Maternal Relative Water Consumption Values (g/kg/day) - Gestation - Summary - F1 Generation Female Rats	511
Table E13.	Maternal Absolute Water Consumption Values (g/day) - Lactation - Summary - F1 Generation Female Rats	512
Table E14.	Maternal Relative Water Consumption Values (g/kg/day) - Lactation - Summary - F1 Generation Female Rats	513
Table E15.	Absolute Feed Consumption Values (g/day) - Postweaning - Summary - F1 Generation Female Rats	514
Table E16.	Relative Feed Consumption Values (g/kg/day) - Postweaning - Summary - F1 Generation Female Rats	515
Table E17.	Maternal Absolute Feed Consumption Values (g/day) - Gestation - Summary - F1 Generation Female Rats	516
Table E18.	Maternal Relative Feed Consumption Values (g/kg/day) - Gestation - Summary - F1 Generation Female Rats	517
Table E19.	Maternal Absolute Feed Consumption Values (g/day) - Lactation - Summary - F1 Generation Female Rats	518
Table E20.	Maternal Relative Feed Consumption Values (g/kg/day) - Lactation - Summary - F1 Generation Female Rats	519
Table E21.	Sexual Maturation - Summary - F1 Generation Female Rats	520
Table E22.	Estrous Cycling, Mating and Fertility - Summary - F1 Generation Female Rats	521
Table E23.	Natural Delivery Observations - Summary - F1 Generation Female Rats	523
Table E24.	Litter Observations (Naturally Delivered Pups) - Summary - F2 Generation Litters	524
Table E25.	Clinical Observations From Birth to Day 21 Postpartum - Summary - F2 Generation Pups	527

SUBJECT		PAGE
Table E26.	Necropsy Observations - Summary - F1 Generation Female Rats	528
Table E27.	Terminal Body Weights and Organ Weights - Summary - F1 Generation Female Rats	529
Table E28.	Ratios (%) of Organ Weight to Terminal Body Weight - Summary - F1 Generation Female Rats	530
Table E29.	Ratios (%) of Organ Weight to Brain Weight - Summary - F1 Generation Female Rats	531
Table E30.	Necropsy Observations - Summary - F2 Generation Pups	532
Table E31.	Organ Weights - Summary - F2 Generation Male Pups	533
Table E32.	Organ Weights - Summary - F2 Generation Female Pups	534
Table E33.	Clinical Observations - Individual Data - F1 Generation Female Rats	535
Table E34.	Body Weights - Postweaning - Individual Data - F1 Generation Female Rats	548
Table E35.	Maternal Body Weights - Presumed Gestation - Individual Data - F1 Generation Female Rats	552
Table E36.	Maternal Body Weights - Lactation - Individual Data - F1 Generation Female Rats	556
Table E37.	Water Consumption Values - Postweaning - Individual Data - F1 Generation Female Rats	560
Table E38.	Maternal Water Consumption Values - Presumed Gestation - Individual Data - F1 Generation Female Rats	572
Table E39.	Maternal Water Consumption Values - Lactation - Individual Data - F1 Generation Female Rats	576
Table E40.	Feed Consumption Values - Postweaning - Individual Data - F1 Generation Female Rats	580

SUBJECT		PAGE
Table E41.	Maternal Feed Consumption Values - Presumed Gestation - Individual Data - F1 Generation Female Rats	584
Table E42.	Maternal Feed Consumption Values - Lactation - Individual Data - F1 Generation Female Rats	588
Table E43.	Sexual Maturation - Individual Data - F1 Generation Female Rats	592
Table E44.	Estrous Cycling and Days in Cohabitation - Individual Data - F1 Generation Female Rats	593
Table E45.	Natural Delivery, Implantation Sites, and Pup Viability and Sex - Individual Data - F1 Generation Female Rats/ F2 Generation Litters	597
Table E46.	Pup Body Weight Litter Averages From Birth to Day 21 Postpartum - Individual Data - F2 Generation Litters	601
Table E47.	Pup Body Weights From Birth to Day 21 Postpartum - Individual Data - F2 Generation Litters	605
Table E48.	Pup Vital Status and Sex From Birth to Day 21 Postpartum - Individual Data - F2 Generation Pups	625
Table E49.	Clinical Observations From Birth to Day 21 Postpartum - Individual Data - F2 Generation Pups	629
Table E50.	Necropsy Observations - Individual Data - F1 Generation Female Rats	631
Table E51.	Terminal Body Weights and Organ Weights and Ratios (%) of Organ Weight to Terminal Body Weight - Individual Data - F1 Generation Female Rats	637
Table E52.	Brain Weights and Organ Weights and Ratios (%) of Organ Weight to Brain Weight - Individual Data - F1 Generation Female Rats	645
Table E53.	Necropsy Observations - Individual Data - F2 Generation Pups	653

SUBJECT		PAGE
Table E54.	Organ Weights - Individual Data - F2 Generation Male Pups	662
Table E55.	Organ Weights - Individual Data - F2 Generation Female Pups	670
APPENDIX F - PROTOCOL AND AMENDMENTS		678
APPENDIX G - DEVIATIONS FROM THE PROTOCOL AND THE STANDARD OPERATING PROCEDURES OF THE TESTING FACILITY		733
APPENDIX H - ENVIRONMENTAL AND HUSBANDRY REPORTS		736
APPENDIX I - ANALYTICAL REPORT		791
APPENDIX J - HISTOPATHOLOGY REPORT		811
APPENDIX K - THYROID AND PITUITARY HORMONE ANALYSIS		1403
APPENDIX L - QUALITY ASSURANCE UNIT FINAL REPORT STATEMENT		1440
Last Page		1447

TITLE: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

ARGUS RESEARCH LABORATORIES, INC.
PROTOCOL NUMBER: 1416-001

I. SUMMARY AND CONCLUSION

A. Methods[a]

P1 Generation Rats:

Two hundred-forty Crl:CD®BR VAF/Plus® (Sprague-Dawley) male and female rats were randomly assigned to four dosage groups (Groups 1 through 4), 30 rats per sex per dosage group. The rats were given continual access to the test substance, ammonium perchlorate, or the carrier, reverse osmosis membrane processed deionized water (R.O. deionized water), once daily beginning at least 70 days before cohabitation and continuing through the day of sacrifice. Target dosages of the test substance were 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day. Concentrations were adjusted based on actual water consumption and body weights recorded the previous week to more closely achieve the target dosage levels. F1 generation rats may have been exposed *in utero* during gestation and via maternal milk and maternal water during the postpartum period.

The rats were observed for viability at least twice each day of the study and for general appearance weekly during acclimation and daily during the exposure period. Body weight and feed consumption values for male rats were recorded weekly during the exposure period and on the day sacrificed. Body weights and feed consumption values for female rats were recorded weekly before

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a. Detailed descriptions of all procedures used in the conduct of this study are provided in the appropriate sections of this report and in APPENDIX F (PROTOCOL AND AMENDMENTS).

cohabitation and on DGs[a] 0, 7, 14, 21 and 25 (if necessary). Body weights during the lactation period were recorded on DLs[b] 1, 4, 7, 14 and 21; feed consumption values were recorded on DLs 1, 4, 7, 10 and 14. Water consumption values were recorded at least three times per week, on DGs 0, 3, 7, 9, 12, 14, 18, 21, 23 and 25 (if necessary), and on DLs 1, 4, 7, 10 and 14.

Estrous cycling was evaluated daily beginning 21 days before cohabitation and continuing until mating. The female rats were evaluated for duration of gestation, litter sizes and pup viability. Maternal behavior of the dams was evaluated daily when the pups were examined during the 21-day postpartum period. Observed maternal behavior was recorded on DLs 1, 4, 7, 14 and 21.

Each litter was evaluated for viability at least twice each day of the 21-day postpartum period. The pups present in each litter were counted once each day. Physical signs were recorded for the pups once each day during the 21-day postpartum period. Pup body weights, sex and observations of nursing behavior were recorded on DLs 1 (birth), 4, 7, 14 and 21.

At the end of the 21-day postpartum period, all surviving P1 generation rats were sacrificed by exsanguination after anesthetization with carbon dioxide, and a gross necropsy of the thoracic, abdominal and pelvic viscera was performed. Gross lesions were retained. Serum was collected at the time of sacrifice for possible analysis of thyroid stimulating hormone (TSH), triiodothyronine (T_3) and thyroxine (T_4) levels.

Sperm evaluations were performed and included evaluation of testicular spermatid concentration, cauda epididymal sperm count and motility and sperm morphology.

The following tissues were weighed and retained: adrenal glands, brain, epididymides, heart, kidneys, liver, ovaries, pituitary, prostate, seminal vesicles, spleen, thyroid/parathyroid and testes. The following tissues were retained: aorta, bone marrow, cervix/vagina, esophagus, eyes, femur, large and small intestine, lungs and trachea, lymph nodes, mammary gland, pancreas, salivary gland, sciatic nerve, skeletal muscle, skin, spinal cord, stomach, thymus, urinary bladder, uterus and Zymbal's gland. Histological examination was performed for the control and high dosage groups of the P1 generation male and female rats. All gross lesions were examined histologically.

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a. DG is used as an abbreviation for day of (presumed) gestation.
b. DL is used as an abbreviation for day of lactation or day postpartum.

Pups not selected for continued evaluation were sacrificed on DL 21; at least three pups/sex/litter were necropsied and examined for gross lesions; gross lesions were retained in neutral buffered 10% formalin. Serum samples from the three pups were collected, pooled by sex per litter, and retained for possible analysis of TSH, T_3 and T_4 levels. The following tissues were weighed and retained: brain, spleen, thymus and thyroid/parathyroid. The following tissues were retained: adrenal glands, liver and kidneys.

F1 Generation Rats/F2 Generation Pups:

Two hundred-forty Crl:CD®BR VAF/Plus® (Sprague-Dawley) male and female rats were randomly assigned to four dosage groups (Groups 1 through 4), 30 rats per sex per dosage group. The rats were given continual access to the test substance or the carrier once daily beginning at weaning and continuing through the day of sacrifice. Target dosages were the same as those administered to the P1 generation rats. Concentrations were adjusted based on actual water consumption and body weights recorded the previous week to more closely achieve the target dosage levels. F2 generation rats may have been exposed to the test substance *in utero* during gestation and via maternal milk and maternal water during the postpartum period.

F1 generation rats were observed for viability at least twice daily during the postweaning period. Rats were also observed for clinical observations and effects of the test substance daily during the postweaning period. Body weights were recorded on the first day of administration and weekly thereafter during the postweaning period, and at sacrifice. Body weights were also recorded for the female rats on DGs 0, 7, 14, 21 and 25 (if necessary), and on DLs 1, 4, 7, 14 and 21. Feed consumption values were recorded weekly postweaning until cohabitation, weekly until sacrifice after cohabitation (male rats), and on DGs 0, 7, 14, 21 and 25 (if necessary) and DLs 1, 4, 7, 10 and 14. Water consumption values were recorded at least three times per week postweaning until the cohabitation period, and at least three times per week during the postcohabitation period (male rats). Water consumption was also recorded on DGs 0, 3, 7, 9, 12, 14, 18, 21, 23 and 25 (if necessary), and on DLs 1, 4, 7, 10 and 14 for the female rats.

Beginning on DL 28, female rats were evaluated for the age of vaginal patency. Beginning on DL 39, male rats were evaluated for the age of preputial separation. Rats were assigned to cohabitation after at least 70 days of exposure to the test substance. Estrous cycling, mating performance, duration of gestation, fertility parameters, maternal behavior and litter data were recorded as described above for the P1 generation female rats. Each F2 generation litter was examined twice daily from birth for pup viability and the pups present in each litter were counted once each day. Clinical observations were recorded

daily during the postpartum period. Body weights and observations of nursing behaviors were recorded along with the sex of the F2 generation pups on DLs 1, 4, 7, 14 and 21.

F1 generation pups not selected for continued observation were described above. All surviving F1 generation rats were sacrificed by exsanguination after anesthetization with carbon dioxide, and a gross necropsy of the thoracic, abdominal and pelvic viscera was performed. Gross lesions were retained. Serum was collected at the time of sacrifice for analysis of TSH, T_3 and T_4 levels. Male and female rats were sacrificed after the 21-day postpartum period. All sperm evaluations for the male rats were conducted as described for the P1 generation rats. The number and distribution of implantation sites was recorded for the female rats.

The following tissues were retained for histopathological examination: aorta, bone marrow, cervix/vagina, esophagus, eyes, femur, large and small intestine, lungs and trachea, lymph nodes, mammary gland, pancreas, salivary gland, sciatic nerve, skeletal muscle, skin, spinal cord, stomach, thymus, urinary bladder, uterus and Zymbal's gland. All gross lesions were examined histologically; the lungs and urinary bladder were inflated with neutral buffered 10% formalin.

F2 generation pups were sacrificed on DL 21, and gross necropsy procedures were conducted as described above for the F1 generation rats. The following organs from the three F2 generation weanlings/sex/litter were retained for histopathological evaluation: adrenal glands, brain, thyroid/parathyroid, liver, spleen, kidneys and thymus.

B. Results

B.1. P1 Generation Rats:

The average actual consumed daily dosages of ammonium perchlorate throughout the study for the P1 generation male and female rats ranged from 100.0% to 134.0% of the target dosage in the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups.

There were no deaths, abortions or premature deliveries in the P1 generation male or female rats attributed to the test substance. One control group male rat was found dead and one 30.0 mg/kg/day target dosage group male rat was moribund sacrificed as the result of an injury. One dam in the 3.0 mg/kg/day target dosage group was moribund sacrificed as the result of an injury. All other rats survived to scheduled sacrifice.

No clinical observations that occurred in the P1 generation male or female rats were considered related to the test substance.

Average body weights and body weight changes for P1 generation male rats were comparable weekly among the four exposure groups through day 134 of the study (DS 134). Average maternal body weights and body weight gains for P1 generation female rats during the precohabitation, gestation and lactation periods were comparable among the four groups.

Absolute (g/day) and/or relative (g/kg/day) water consumption values for P1 generation male rats in the 30.0 mg/kg/day target dosage group were significantly reduced on DSs 36 to 43, 50 to 57, 57 to 64, 64 to 71, 92 to 99, 113 to 120, 127 to 134 and for the entire exposure period (DSs 1 to 134), compared to the control group. These reductions in water consumption were considered treatment-related because they were dosage-dependent and occurred over the entire exposure period. Average maternal absolute and relative water consumption values for P1 generation female rats during the precohabitation, gestation and lactation periods were comparable among the four groups.

Absolute (g/day) and relative (g/kg/day) feed consumption values for the P1 generation male and female rats were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day.

Mating and fertility parameters (estrous cycling, fertility index, number of days to inseminate, the number of rats that mated and the number of rats with confirmed mating dates during the first and second weeks of cohabitation) were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day.

No necropsy observations were considered related to the test substance in the P1 generation male or female rats. Absolute thyroid weights for the P1 generation male rats were increased in all three treated groups in a dosage-dependent manner; the increases were significant in the 3.0 and 30.0 mg/kg/day target dosage groups. Absolute thyroid weights for the P1 generation female rats were significantly increased in the 30.0 mg/kg/day target dosage group, compared to the control group. The ratios of thyroid weight to terminal body weight and to the absolute brain weight were significantly increased in the 30.0 mg/kg/day target dosage group for both the P1 generation male and female rats. For the P1 generation adult male rats, a significant increase in TSH levels and a concomitant significant decrease in T_4 values occurred in the 30.0 mg/kg/day target dosage group.

No statistically significant or dosage-dependent differences occurred in the number of motile sperm or the percentage of motile sperm and the number of nonmotile sperm (static). Cauda epididymal sperm count, concentration and density and spermatid count, concentration and density were unaffected by

targeted dosages of the test substance as high as 30.0 mg/kg/day. Evaluation of cauda epididymal sperm morphology did not identify any statistically significant or biologically important differences among the four exposure groups.

Natural delivery observations were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day and all clinical and necropsy observations in the F1 generation pups were considered unrelated to the test substance. The weight of the thyroid and parathyroid glands was significantly increased for both male and female F1 generation pups in the 30.0 mg/kg/day target dosage group. The weight of the spleen was somewhat increased in all treated groups (107.7% to 115.4% of the carrier group value); the increases were dosage-dependent for the male pups, and the weight was significantly increased in the 30.0 mg/kg/day target dosage group female pups.

B.2. <u>F1 Generation Rats/F2 Generation Pups</u>:

The average actual consumed daily dosages for the male rats for the entire exposure period ranged from 88.3% to 100% of target for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups. The average actual consumed dosages for the female rats ranged from 92.7% to 100% (precohabitation); from 66.7% to 100% (gestation); and from 100% to 133.3% (lactation) of target for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, respectively.

There were no deaths, abortions or premature deliveries in the F1 generation male or female rats attributed to the test substance. Three male and one female F1 generation rats in the 30.0 mg/kg/day target dosage group were found dead, and one female in the 0.3 mg/kg/day target dosage group was moribund sacrificed. All other rats survived to scheduled sacrifice. No clinical observations that occurred in the F1 generation male or female rats were considered related to the test substance.

Average body weights and body weight gains for the F1 generation male rats were comparable among the four exposure groups. Average maternal body weights and body weight gains for the F1 generation female rats during the precohabitation, gestation and lactation periods were comparable among the four exposure groups.

Absolute and relative water consumption values for the F1 generation male rats were unaffected by exposures up to 30.0 mg/kg/day of the test substance. Average absolute and relative water consumption values for the F1 generation female rats during the precohabitation, gestation and lactation periods were comparable among the four exposure groups.

Absolute and relative feed consumption values for the male and female rats were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day.

Target dosages of the test substance as high as 30.0 mg/kg/day did not affect the average day of preputial separation for the male rats or the average day of vaginal patency for the female rats. Estrous cycling observations were comparable among the treated female rats prior to cohabitation. The fertility index and the numbers of rats pregnant per rats in cohabitation were significantly increased in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, compared to the carrier group. This increase in fertility of the male rats exposed to the test substance was considered unrelated to treatment because the values were not dosage-dependent and was actually due to the low fertility in the carrier group used for the statistical comparison. Targeted dosages of the test substance as high as 30.0 mg/kg/day did not affect the number of days in cohabitation or the number of rats mating during the first or second week of cohabitation.

Natural delivery observations were unaffected by targeted dosages of the test substance as high as 3.0 mg/kg/day. The percentages of liveborn pups and stillborn pups were significantly reduced and increased, respectively, in the 30.0 mg/kg/day target dosage group. These changes were considered unrelated to the test substance because the average number of liveborn and stillborn pups per litter were comparable in the four exposure groups and did not differ significantly.

No necropsy observations for the male and female rats were considered related to the test substance in the F1 generation. Terminal body weights for the male rats were significantly increased in the 0.3 mg/kg/day target dosage group, a non dosage-dependent event, unrelated to the test substance. Terminal body weights for the female rats were unaffected by the test substance.

Thyroid weights and the ratios of the thyroid weight to the terminal body weight and to the brain weight were significantly increased for the male rats in the 3.0 and 30.0 mg/kg/day target dosage groups, and for the female rats in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups. These increases in absolute and relative thyroid weights were considered treatment-related because they were dosage-dependent.

The significant increases that occurred in the absolute weights of the left testis, right epididymis, pituitary, brain, liver, kidneys and spleen were not considered treatment-related. No statistically significant or dosage-dependent differences occurred in the number or percentage of motile sperm, the number of nonmotile sperm (static) and total count. Cauda epididymal sperm count, concentration and density and spermatid count, concentration and density were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day. There were no statistically significant differences among the four exposure groups.

Exposure-related histomorphologic changes were observed in the thyroid gland of parental male and female F1 generation rats. For the F1 generation adult male and female rats, a significant increase in serum TSH levels and a concomitant significant decrease in serum T_4 values occurred in the 30.0 mg/kg/day target dosage group, as compared to the carrier group value. Significant increases in serum T_4 levels occurred in the 0.3 and 3.0 mg/kg/day target dosage groups, as compared to the carrier group value. These increases in serum T_4 levels were not considered an effect of the test substance.

All clinical observations in the F2 generation pups were considered unrelated to the test substance. All necropsy observations in the F2 generation pups were considered unrelated to the test substance. The weights of all organs were unaffected by targeted exposures of the test substance as high as 30.0 mg/kg/day. The weight of the thyroid/parathyroid glands was significantly increased for the female F2 generation pups in the 30.0 mg/kg/day target dosage group. This increase was considered unrelated to the test substance. Exposure-related histomorphologic changes were observed in the thyroid gland of male and female F2 generation pups. The incidence of hyperplasia/ hypertrophy was significantly increased in the 3.0 and 30.0 mg/kg/day target dosage groups. The incidence in the 0.3 mg/kg/day target dosage group was considered comparable to the carrier group. The only other finding in the thyroid gland of the male and female pups was an occasional ultimobranchial body/cyst which are congenital remnants that commonly are found in the thyroid gland of young rats; the incidence of this finding was not influenced by test substance exposure.

Thyroid and pituitary hormone levels in the F2 generation pups were unaffected by parental exposure to targeted dosages of ammonium perchlorate as high as 30.0 mg/kg/day. Serum T_3 levels for the F2 generation male pups were significantly increased in the 3.0 mg/kg/day target dosage group and serum T_4 levels for the F2 generation female pups were significantly increased in the 3.0 mg/kg/day target dosage group. These increases were not considered an effect of the test substance.

C. Conclusion

On the basis of these data, the paternal no-observable-adverse-effect-level (NOAEL) for ammonium perchlorate is a target dosage of 0.3 mg/kg/day (the 3.0 and 30.0 mg/kg/day target dosages caused significant increases in absolute thyroid weights and the 30.0 mg/kg/day target dosage also caused significant increases in the ratios of thyroid weight to terminal body weight and thyroid weight to the absolute brain weight, and significant reductions in absolute and relative water consumption values for P1 generation male rats). The maternal NOAEL for ammonium perchlorate is a target dosage of 3.0 mg/kg/day (the 30.0 mg/kg/day target dosage significantly increased absolute thyroid weights

were significantly increased for both male and female F1 generation pups in the 30.0 mg/kg/day target dosage group and the weight of the spleen was significantly increased for the 30.0 mg/kg/day target dosage group female pups).

Mildred S. Christian, Ph.D., Fellow, ATS Date
Executive Director of Research

Alan M. Hoberman, Ph.D., DABT Date
Director of Research

Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

II. DESCRIPTION OF TEST PROCEDURES

A. Conduct of Study:

A.1. Sponsor:

Perchlorate Study Group, Highway 50 & Aerojet Road, Building 20019/ Department 0330, Sacramento, California 95670

A.2. Testing Facility:

Argus Research Laboratories, Inc., 905 Sheehy Drive, Building A, Horsham, Pennsylvania 19044-1297

A.3. Study Number:

1416-001

A.4. Purpose of the Study:

The purpose of this study was to provide information concerning the effects of Ammonium Perchlorate on the male and female reproductive systems in rats, including gonadal function, estrous cycles, mating behavior, conception, parturition, lactation, weaning and the growth and development of offspring. The study was also designed to provide information about effects on neonatal morbidity, mortality and preliminary data on potential prenatal developmental toxicity, as well as to serve as a guide for use in the design of subsequent tests.

A.5. Study Design:

The requirements of the U.S. Environmental Protection Agency[1,2], the Organization for Economic Cooperation and Development (OECD)[3] and the Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF)[4] were used as the basis for study design.

A.6. Regulatory Compliance:

The study was conducted in compliance with Good Laboratory Practice (GLP) regulations of the U.S. Environmental Protection Agency (EPA)[5,6], the Organization for Economic Cooperation and Development (OECD)[7] and the Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF)[8]. There were no significant deviations from the GLP regulations that affected the quality or integrity of the study. Quality Assurance Unit findings derived from the inspections during the conduct of this study are documented and have been provided to the Study Director and the Testing Facility Management.

A.7. Ownership of the Study:

The Sponsor owns the study. All raw data, analyses, reports and preserved tissues are the property of the Sponsor.

A.8. Study Monitor:

Michael F. Girard (Perchlorate Study Group Representative)

A.9. Scientific Advisor:

Michael L. Dourson, Ph.D., DABT [Toxicology Excellence for Risk Assessment (TERA)]

A.10. Study Director:

Raymond G. York, Ph.D., DABT (Associate Director of Research)

A.11. Technical Performance:

John F. Barnett, B.S. (Director of Laboratory Operations)
John F. Barnett, Jr., B.S. (Senior Research Associate)
Susan K. Bradshaw, B.S. (Laboratory Technician)

A.12. Report Preparation:

Raymond G. York, Ph.D., DABT
Heidi M. Green, M.S. (Study Coordinator)
Erin Hagan, B.A. (Data Management Specialist)
Georgia Y. Burnett, A.A.S. (Report Administrator)

A.13. Report Review:

Alan M. Hoberman, Ph.D., DABT (Director of Research)
Mildred S. Christian, Ph.D., Fellow, ATS (Executive Director of Research)

A.14. Date Protocol Signed:

31 December 1997

A.15. Dates of Technical Performance:

P1 Generation:

Rat Arrival Date	06 JAN 98
Exposure Period	12 JAN 98 - 29 MAY 98
Estrous Cycle Evaluation	03 MAR 98 - 23 MAR 98
Cohabitation Period (after 70 days of exposure)	23 MAR 98 PM - 06 APR 98 AM
Delivery Period (DL[a] 1)	14 APR 98 - 28 APR 98
DG[b] 25 Sacrifice (female rats)	18 APR 98 - 01 MAY 98
Scheduled Sacrifice (male rats)	26 MAY 98 - 29 MAY 98
DL 21 (Dams and litters not selected for continued observation sacrificed)	05 MAY 98 - 18 MAY 98

F1 Generation:

Exposure Period	06 MAY 98 - 25 SEP 98
Estrous Cycle Evaluation	07 JUL 98 - 27 JUL 98
Cohabitation Period (after at least 70 days of exposure)	27 JUL 98 PM - 10 AUG 98 AM
Delivery Period	18 AUG 98 - 27 AUG 98
DG 25 Sacrifice (female rats)	22 AUG 98 - 29 AUG 98
Scheduled Sacrifice (male rats)	21 SEP 98 - 25 SEP 98
DL 21 (F1 generation dams and F2 generation litters sacrificed)	08 SEP 98 - 16 SEP 98

A.16. Records Maintained:

The original report, raw data and reserve samples of the test substance and carrier are retained in the archives of Argus Research Laboratories, Inc. Any preserved tissues are retained in the archives of the Testing Facility for one year after the mailing of the draft final report, after which time the Sponsor will decide their final disposition. All unused bulk test substance and prepared formulations will be discarded at the Testing Facility.

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a. DL is used as an abbreviation for day of lactation or day postpartum.
b. DG is used as an abbreviation for day of (presumed) gestation.

B. Test Substance Information:

B.1. Description:

Ammonium Perchlorate - a white, crystalline solid

B.2. Lot Number:

03907LF

B.3. Date Received and Storage Conditions:

The test substance was received on 28 August 1997, 29 December 1997 and 12 January 1998, from Aldrich Chemical Company, Milwaukee, Wisconsin and stored at room temperature.

B.4. Special Handling Instructions:

Gloves, half-face respirator, safety goggles or safety glasses, uniform or lab coat and a face-shield were worn when handling the bulk test substance.

C. Carrier Information:

C.1. Description:

Reverse osmosis membrane processed deionized water (R.O. deionized water)

C.2. Date Received and Storage Conditions:

The R.O. deionized water is available from a continuous source at the Testing Facility and is maintained at room temperature.

C.3. Special Handling Instructions:

Standard safety precautions (use of protective clothing, gloves, dust-mist respirator, safety goggles or safety glasses and a face-shield) were taken when handling the carrier.

C.4. Analysis of Purity:

Neither the Sponsor nor the Study Director was aware of any potential contaminants likely to be present in the carrier that would interfere with the results of this study. Results of the R.O. deionized water analyses are available in the raw data and APPENDIX I.

D. Test Substance Preparation:

Solutions of Ammonium Perchlorate were prepared weekly at the Testing Facility. The test substance was considered 100% pure for the purpose of dosage calculations. Prepared stock formulations were stored refrigerated. Dosage solutions were allowed to equilibrate to room temperature prior to use.

D.1. Sample Information:

Sample Type	Size	Date Retained	Storage/Shipping Conditions	Shipped To	Date Shipped
Concentration (all levels)	10 mL[a]	12 JAN 98 10 FEB 98 10 MAR 98 07 APR 98 05 MAY 98 02 JUN 98 14 JUL 98 11 AUG 98 08 SEP 98	Refrigerated	Lancaster Laboratories[b]	13 JAN 98 11 FEB 98 11 MAR 98 08 APR 98 06 MAY 98 03 JUN 98 15 JUL 98 12 AUG 98 09 SEP 98
Bulk Test Substance Reserve	5 g	12 JAN 98	Room temperature	Testing Facility Archives	24 MAR 98
Carrier Reserve	5 mL	12 JAN 98	Room temperature	Testing Facility Archives	24 MAR 98

a. Duplicate samples (10 mL each) were taken from each formulation (including stock solution) on the day of the first preparation and monthly thereafter for the remainder of the exposure period. One set of samples was sent for analysis; the remaining samples were retained at the Testing Facility as backups.
b. Lancaster Laboratories, Lancaster, Pennsylvania.

Documentation of the stability of the prepared solutions is on file with the ManTech Environmental Technology, Inc., 2856 G Street, Building 79, WPAFB, Ohio. Stability has been established for up to 109 days.

D.2. Analytical Results:

The concentrations of the ammonium perchlorate dosing solutions were verified by ion chromatographic (IC) analysis to be within an acceptable range of +/-10%. Result are available in APPENDIX I.

Actual concentrations of the test substance formulations are listed in section G.1.

Target Dosages (mg/kg/day)	0	0.3	3.0	30.0	Stock Solution[a]
Date Retained	Percent Difference from Target (%)				
12 JAN 98	0	-3.1	+1.6	+2.7	+3.6
10 FEB 98	0	+5.2	+8.3	+8.2	+10.0
10 MAR 98	0	+3.0	+4.6	0	+7.0
07 APR 98	0	-1.3	+1.6	+0.8	+3.6
05 MAY 98	0	+30.9	+15.8	+1.7	+2.6
02 JUN 98	0	+2.6	+4.2	+1.5	+5.0
14 JUL 98	0	-3.3	+3.8	+1.6	+6.0
11 AUG 98	0	-0.4	+5.8	+4.0	+6.6
08 SEP 98	0	-1.7	+1.0	-0.2	+4.0

a. Stock solution concentration was 50 mg/mL.

E. Test System:

E.1. Species:

Rat

E.2. Strain:

Crl:CD®BR VAF/Plus® (Sprague-Dawley)

E.3. Supplier (Source):

Charles River Laboratories, Inc., Portage, Michigan

E.4. Sex:

Male and Female

E.5. Rationale for Test System:

The Crl:CD®BR VAF/Plus® (Sprague-Dawley) rat was selected as the Test System because this strain of rat has been demonstrated to be sensitive to

reproductive and developmental toxins and has been widely used throughout industry for reproductive and developmental toxicity evaluations[9-11].

E.6. Test System Data:

	P1 Generation	
	Males	Females
Number of Rats	130	130
Approximate Date of Birth	30 NOV 97	29 NOV 97
Approximate Age at Arrival	38 days	39 days
Weight (g) on Day After Arrival	85 - 134	89 - 130
Weight (g) at Study Assignment	112 - 144	121 - 145

E.7. Method of Randomization:

Upon arrival, rats were assigned to individual housing on the basis of computer-generated random units. Female and male rats were assigned to one of four dosage groups (Groups 1 through 4), 30 rats per sex per dosage group, using a computer-generated (weight-ordered) randomization procedure based on physical appearance and body weights.

At weaning on DL 21, a table of random units was used to select 30 male and 30 female F1 generation pups per group, resulting in a total of 240 rats (120 per sex) chosen for continued evaluation. At least one male and one female pup per litter, when possible, were selected. When necessary, a table of random units was used to select more than one pup per sex per litter so that groups were equal in size. A table of random units was used to assign F1 generation rats to cohabitation, one male rat per female rat, with the exclusion of sibling matings.

E.8. System of Identification:

P1 Generation Rats:

Cage tags were marked with the study number, permanent rat number, sex, test substance identification and dosage level. Each rat was individually identified with a Monel® self-piercing ear tag (Gey Band and Tag Co., Inc., No. MSPT 20101) inscribed with the rat's designated unique permanent number.

F1 and F2 Generation Pups/Rats:

Pups were not individually identified during the postpartum period. At weaning each F1 generation rat selected for continued observation was identified with a Monel® self-piercing ear tag. F2 generation pups were not individually identified within the litter.

F. Husbandry:

F.1. Research Facility Registration:

USDA Registration No. 23-R-099 under the Animal Welfare Act, 7 U.S.C. 2131 *et seq.*

F.2. Study Rooms:

The study rooms were maintained under conditions of positive airflow relative to a hallway and independently supplied with a minimum of ten changes per hour of 100% fresh air that had been passed through 99.97% HEPA filters (Airo Clean® rooms). Room temperature and humidity were monitored constantly throughout the study. Room temperature was targeted at 64°F (18°C) to 79°F (26°C); relative humidity was targeted at 30% to 70%, see APPENDIX H (ENVIRONMENTAL AND HUSBANDRY REPORTS).

F.3. Housing:

P1 Generation Rats:

Rats were individually housed except during the cohabitation and 21-day postpartum periods. During cohabitation, each pair of male and female rats was housed in the male rat's cage. Beginning no later than DG 20, female rats were individually housed in nesting boxes. Each dam and delivered litter was housed in a common nesting box during the postpartum period. All cage sizes and housing conditions were in compliance with the *Guide for the Care and Use of Laboratory Animals*[12].

F1 and F2 Generation Pups/Rats:

After weaning, the F1 generation rats were individually housed before cohabitation, housed in pairs (one male rat per female rat) during cohabitation, and individually housed after cohabitation. The same type of caging was used as described for the P1 generation rats. Beginning no later than DG 20, female rats were individually housed in nesting boxes. Each dam and delivered litter was housed in a common nesting box during the postpartum period.

F.4. Lighting:

An automatically-controlled fluorescent light cycle was maintained at 12-hours light:12-hours dark, with each dark period beginning at 1900 hours EST.

F.5. Sanitization:

Cage pan liners were changed approximately three times each week. Cages were changed approximately every other week. The bedding was changed as often as necessary to keep the rats dry and clean.

F.6. Feed:

Rats were given *ad libitum* access to Certified Rodent Diet® #5002 (PMI Nutrition International, St. Louis, Missouri) in individual feeders.

F.7. Feed Analysis:

Analyses were routinely performed by the feed supplier. No contaminants at levels exceeding the maximum concentration limits for certified feed or deviations from expected nutritional requirements were detected by these analyses. Iodine in the feed from Calcium Iodate was 0.67 ppm (PMI Nutrition International, St. Louis, Missouri). Copies of the results of the feed analyses are available in the raw data and APPENDIX H.

Neither the Study Director nor the Sponsor was aware of any agent present in the feed that would interfere with the results of this study.

F.8. Water:

All water was from a local source and was processed by passage through a reverse osmosis membrane (R.O. water) before use. Chlorine was not added to the processed water as a bacteriostat during the acclimation and exposure periods.

During the acclimation and pre-exposure periods, rats were given R.O. deionized water available *ad libitum* from individual amber bottles attached to the cages. During the exposure period, P1 and F1 generation rats were given either R.O. deionized water only (carrier control group) or test drinking water prepared using R.O. deionized water and the test substance. These were available *ad libitum* from individual bottles attached to the cages.

F.9. Water Analysis:

The processed water is analyzed twice annually for possible chemical contamination (Lancaster Laboratories, Lancaster, Pennsylvania) and monthly for possible bacterial contamination (Analytical Laboratories, Inc., Chalfont, Pennsylvania). Copies of the results of the water analyses are available in the raw data and in APPENDIX H.

Neither the Study Director nor the Sponsor was aware of any agent present in the water that would interfere with the results of this study.

F.10. Bedding:

Bed-o'cobs® was used as the nesting material (The Andersons Industrial Products Group, Maumee, Ohio)

F.11. Bedding Analysis:

Analyses for possible contamination are conducted annually. Copies of the results of the bedding analyses are available in the raw data and in APPENDIX H.

G. Methods:

G.1. Dosage Administration:

P1 Generation Rats:

Dosage Group	Target Dosage (mg/kg/day)	Number of Rats Per Sex	Assigned Numbers	
			Females	Males
1	0 (Carrier)	30	3801-3830	3601-3630
2	0.3	30	3831-3860	3631-3660
3	3.0	30	3861-3890	3661-3690
4	30.0	30	3891-3920	3691-3720

F1 Generation Rats:

Dosage Group	Target Dosage (mg/kg/day)	Number of Rats Per Sex	Assigned Numbers	
			Females	Males
1	0 (Carrier)	30	7201 - 7230	7001 - 7013, 5450[a], 7015 - 7030
2	0.3	30	7231 - 7260	7031 - 7060
3	3.0	30	7261 - 7290	7061 - 7090
4	30.0	30	7291 - 7320	7091 - 7120

a. Male rat 7014 was found dead on DP[a] 9 and was replaced by male rat 5450.

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a. DP is used as an abbreviation for day postpartum.

The test substance was considered 100% pure for the purpose of dosage calculations.

Initial test substance concentrations were calculated to deliver the target dosage based on average water consumption of 33 mL/rat/day (132 mL/kg/day) for a 250 g rat. Concentrations were adjusted based on actual water consumption and body weights recorded the previous week. The actual test substance concentrations offered to the rats were as follows:

Actual Dosage Concentrations:

P1 Generation Rats:

Preparation Dates	Dosage Group Concentrations (µg/mL)								
	Group 2			Group 3			Group 4		
	Females		Males	Females		Males	Females		Males
12 JAN 98	2.29		2.29	22.94		22.94	225.88		225.88
20 JAN 98	1.74		1.80	15.60		17.34	166.36		186.32
27 JAN 98	1.97		2.31	19.69		23.08	186.36		240.81
03 FEB 98	1.88		2.38	18.08		23.17	177.60		254.59
10 FEB 98	2.16		2.95	20.46		28.59	212.87		309.89
17 FEB 98	2.24		3.14	21.50		30.00	219.70		318.75
24 FEB 98	2.38		3.25	22.68		30.14	219.43		333.08
03 MAR 98	2.22		3.37	21.08		32.93	216.49		342.75
10 MAR 98	2.54		3.92	24.26		35.43	229.17		408.86
17 MAR 98	2.53		3.68	22.18		34.53	234.17		382.31
24 MAR 98	2.38		4.32	21.45		40.12	227.37		450.88
31 MAR 98	2.43		4.38	19.64		40.95	210.73		460.59
07 APR 98	2.28		4.46	20.12		41.85	203.12		471.18
14 APR 98	2.19		4.22	19.36		38.22	193.64		419.25
14 APR 98[a]	1.50			15.00			150.00		
	Gestation	Lactation		Gestation	Lactation		Gestation	Lactation	
21 APR 98	5.62	1.70	4.40	52.80	15.26	42.71	465.00	166.72	427.50
28 APR 98	3.96	1.24	4.19	38.65	11.39	40.11	342.86	108.98	408.14
05 MAY 98	1.00		5.28	11.27		51.40	107.88		501.67
06 MAY 98	1.20		1.20	12.00		12.00	120.00		120.00
12 MAY 98	1.31		5.18			49.15	131.11		505.83
19 MAY 98			5.22			49.69			526.28

a. This concentration was prepared for use with dams who had delivered a litter.

F1 Generation Rats:

Preparation Dates	Dosage Group Concentrations (µg/mL)								
	Group 2			Group 3			Group 4		
	Females		Males	Females		Males	Females		Males
26 MAY 98	1.32		1.81	12.00		18.60	114.17		187.50
02 JUN 98	1.92		2.35	18.78		23.36	192.22		230.36
09 JUN 98	1.79		2.07	16.67		21.85	169.17		200.00
16 JUN 98	1.78		2.48	16.88		22.21	163.57		228.67
23 JUN 98	1.89		2.65	18.45		25.40	166.67		250.85
30 JUN 98	1.89		2.86	18.64		27.77	175.33		273.83
07 JUL 98	2.14		3.39	20.48		32.04	178.04		301.96
14 JUL 98	2.22		3.29	19.95		31.66	183.91		324.00
21 JUL 98	2.17		3.67	22.97		34.67	198.41		345.68
27 JUL 98	2.28			23.45			194.35		
28 JUL 98			4.12			39.36			387.80
04 AUG 98	1.32[a]		4.20[b]	18.56[a]		40.10[b]	139.69[a]		392.20[b]
11 AUG 98	1.62		3.95	18.74		36.32	184.44		352.34
	Gestation	Lactation		Gestation	Lactation		Gestation	Lactation	
18 AUG 98	1.81	1.62[c]	4.16	18.20	16.25[c]	36.50	172.50	162.50[c]	403.57
25 AUG 98	1.81	1.39	4.04	18.20	17.55	40.77	172.50	158.31	403.26
01 SEP 98	1.81	1.11	4.44		11.69	39.59		114.43	410.93
08 SEP 98		0.96	4.50		9.96	36.35		97.84	428.57
15 SEP 98			4.79			43.88			455.25
22 SEP 98			4.88			49.46			445.00

a. This concentration was offered to both gestating female rats and nonpregnant female rats still in cohabitation.
b. Male rats no longer in cohabitation.
c. This concentration was prepared for use with dams who had delivered a litter.

G.2. Rationale for Dosage Selection:

A carrier control and three test substance concentrations were given to the P1 and F1 generation rats. Dosages were selected on the basis of three previous studies with the test substance. One study was a fourteen day oral-dosing toxicity study in which the NOAEL was 0.44 mg/kg/day and the LOAEL was 1.11 mg/kg/day for the male rats, and 0.12 mg/kg/day and 0.47 mg/kg/day, respectively, for the female rats[13]. Dosages selected also reflected a 90-day

drinking water toxicity study being conducted in rats (Springborn Study No. 3455.1). In that study, the target dosages were 0 [Vehicle (R.O. water)], 0.01, 0.05, 0.2, 1.0 and 10.0 mg/kg/day. The second study was a drinking water neurobehavioral developmental study (Argus Study 1613-002) in rats using dosages of 0.1, 1.0, 3.0 and 10.0 mg/kg/day.

G.3. Route of Administration:

Oral (drinking water)

G.4. Rationale for Route of Administration:

The oral (drinking water) route was selected for use because it is the most likely route of human exposure.

G.5. Frequency of Administration:

P1 Generation Rats:

A constant concentration of the test substance intended to deliver the target doses specified in the protocol was offered to the rats in the drinking water daily to P1 generation female and male rats beginning at least 70 days before cohabitation and continuing through the day of sacrifice[a].

F1 Generation Pups/Rats:

F1 generation rats may have been exposed *in utero* during gestation and via maternal milk and maternal water during the postpartum period. F1 generation rats were given the same test substance concentrations as their respective P1 generation sires and dams once daily beginning at weaning and continuing through the day of sacrifice[a].

F2 Generation Pups:

F2 generation pups were not directly given the test substance but may have been possibly exposed to the test substance during maternal gestation (*in utero* exposure) or via maternal milk and maternal water during the postpartum period.

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a. See APPENDIX G (DEVIATIONS FROM THE PROTOCOL AND THE STANDARD OPERATING PROCEDURES OF THE TESTING FACILITY), item 1.

G.6. Length of Study:

Approximately 9 months

G.7. Method of Study Performance:

P1 Generation Rats:

Within each dosage group, consecutive order was used to assign P1 generation rats to cohabitation, one male rat per female rat. The cohabitation period for the P1 generation rats consisted of a maximum of 14 days. Female rats with spermatozoa observed in a smear of the vaginal contents and/or a copulatory plug observed *in situ* were considered to be at DG 0 and assigned to individual housing.

The male rats were observed for viability at least twice each day of the study and for general appearance weekly during acclimation. The rats were examined daily during the exposure period for clinical observations of effects of the test substance and deaths. Body weights were recorded weekly during acclimation, on the first day of dosage, weekly thereafter and at scheduled sacrifice. Feed consumption values for male rats were recorded weekly during the exposure period. Water consumption values were recorded at least three times per week.

The female rats were observed for viability at least twice each day of the study and for general appearance weekly during acclimation. The rats were examined daily during the exposure period for clinical observations of effects of the test substance, abortions, premature deliveries and deaths. Body weights were recorded weekly during acclimation, on the first day of exposure, on DGs 0, 7, 14, 21 and 25 (if necessary), on DLs 1, 4, 7, 14 and 21 and on the day sacrificed. Feed consumption values for female rats were recorded weekly before cohabitation, on DGs 0, 7, 14, 21 and 25 (if necessary), and on DLs 1, 4, 7, 10 and 14. Water consumption values were recorded at least three times per week before cohabitation, on DGs 0, 3, 7, 9, 12, 14, 18, 21, 23 and 25 (if necessary), and on DLs 1, 4, 7, 10 and 14.

Estrous cycling for the P1 generation rats was evaluated daily by examination of vaginal cytology beginning 21 days before the scheduled cohabitation period and continuing until spermatozoa were observed in a smear of the vaginal contents and/or a copulatory plug was observed *in situ*.

The female rats were evaluated for duration of gestation (DG 0 to the day the first pup was delivered), litter sizes (live and dead pups and live pups only) and pup viability. Pups that either appeared stillborn or that died before initial examination of the litters for viability were examined for vital status at birth. The lungs were removed and immersed in water. Pups with lungs that sank were

considered stillborn; pups with lungs that floated were considered liveborn and to have died shortly after birth. Each litter was subsequently examined daily for pup viability. Maternal behavior of the dams was evaluated daily when the pups were examined during the 21-day postpartum period. Observed maternal behavior was recorded on DLs 1, 4, 7, 14 and 21. Variations from expected maternal behavior were recorded, if and when present, on all other days of the postpartum period.

F1 Generation Pups/Rats and F2 Generation Litters:

Day 1 of lactation (postpartum) was defined as the day of birth and was also the first day on which all pups in a litter were individually weighed (pup body weights were recorded after all pups in a litter were delivered and groomed by the dam).

Vital status at birth was determined for pups that either appeared stillborn or that died before initial examination of the litter for viability, as previously described. Each litter was evaluated for viability at least twice each day of the 21-day postpartum period. Dead pups observed at these times were removed from the nesting box. When not precluded by autolysis or cannibalization by the dam, any pup found dead was necropsied and examined for the cause of death and gross lesions. F1 generation rats were observed for viability at least twice daily during the postweaning period. Rats were also observed for clinical observations and effects of the test substance daily during the postweaning period.

The pups present in each litter were counted once each day. Physical signs (including gross external physical anomalies) were recorded for the pups once each day during the preweaning and postweaning periods. Pup body weights and observations of nursing behavior were recorded along with the sex of the pups on DLs 1 (birth), 4, 7, 14 and 21. Deviations from expected nursing behavior were recorded, if and when present, on all other days during the postpartum period.

Body weights for the F1 generation rats were recorded on the first day of exposure and weekly thereafter during the postweaning period. Body weights were also recorded on DGs 0, 7, 14, 21 and 25 (if necessary), on DLs 1, 4, 7, 14 and 21, and at sacrifice. Feed consumption values were recorded weekly postweaning until cohabitation, weekly until sacrifice postcohabitation (male rats), and on DGs 0, 7, 14, 21 and 25 (if necessary) and DLs 1, 4, 7, 10 and 14.

Water consumption values were recorded at least three times per week postweaning until the cohabitation period, and at least three times per week during the postcohabitation period (male rats). Water consumption was also recorded on DGs 0, 3, 7, 9, 12, 14, 18, 21, 23 and 25 (if necessary), and on DLs 1, 4, 7, 10 and 14.

Beginning on DL 28, female rats were evaluated for the age of vaginal patency. Beginning on DL 39, male rats were evaluated for the age of preputial separation. A table of random units was used to assign F1 generation rats to cohabitation, one male rat per female rat, with the exclusion of sibling matings. The cohabitation period for F1 generation rats consisted of a maximum of 14 days. Female rats with spermatozoa observed in a smear of the vaginal contents and/or a copulatory plug observed *in situ* were considered to be at DG 0 and assigned to individual housing.

Estrous cycling, mating performance, duration of gestation, fertility parameters, maternal behavior and litter data were recorded as described above for the P1 generation dams and litters. Each F2 generation litter was examined twice daily from birth for pup viability and the pups present in each litter were counted once each day. Clinical observations were recorded daily during the postpartum period. Body weights and observations of nursing behaviors were recorded along with the sex of the F2 generation pups on DLs 1, 4, 7, 14 and 21.

G.8. Gross Necropsy:

P1 and F1 Generation Adult Rats:

A pathologist was present for the first day of scheduled necropsies of all P1 generation adult male rats and female rats with litters. The pathologist reviewed necropsy procedures and tissue and data collection methods at that time. Throughout the euthanasia and necropsy procedures, every effort was made to avoid inducing stress in the rats because this could affect scheduled hormone evaluations (e.g., no excess noise or radio). At the end of the 21-day postpartum period, all surviving P1 and F1 generation rats were sacrificed by exsanguination after anesthetization with carbon dioxide. P1 generation necropsies and blood collections were conducted over the course of four days (male rats) and 14 days (female rats). F1 generation necropsies and blood collections were conducted over the course of five days (male rats) and nine days (female rats). Rats were not fasted prior to sample collection and euthanasia. A gross necropsy of the thoracic, abdominal and pelvic viscera was performed. Gross necropsy included an initial physical examination of external surfaces and all orifices, as well as an internal examination of tissues and organs *in situ*. The following were examined: external and internal portions of all hollow organs; the external surfaces of the brain and spinal column, the nasal cavity and neck with associated organs and tissues; the thoracic, abdominal and pelvic cavities with associated organs and tissues; and the musculo/skeletal carcass. Gross lesions were retained in neutral buffered 10% formalin. Representative photographs of gross lesions are available in the raw data.

Blood was collected from the inferior vena cava at the time of sacrifice for determination of TSH, T_3 and T_4. Approximately 3 mL of blood was collected in a

serum separator tube to yield around 1500 µL of serum. The serum was aliquoted into three vials (approximately 500 µL/vial) for TSH, T_3 and T_4 samples, immediately frozen on dry ice and maintained frozen at the Testing Facility until shipment for analysis to AniLytics, Inc., 200 Girard Street, Suite 200, Gaithersburg, Maryland.

The following organs were weighed prior to fixation and retained: adrenal glands, brain, epididymides, heart, kidneys, liver, ovaries, pituitary, prostate, seminal vesicles, spleen and testes.

The thyroids and parathyroids[a] were immersed in neutral buffered 10% formalin immediately after collection. Following fixation, the thyroid/parathyroid tissue samples were carefully trimmed and weighed. The same technician performed all trimming of thyroid/parathyroid tissues at least 48 hours post fixation.

The left testes was used for evaluation of testicular spermatid concentration; the right testes was fixed in Bouin's solution for 48 to 96 hours, rinsed and then retained in neutral buffered 10% formalin.

The following tissues were retained in neutral buffered 10% formalin for histopathological examination: aorta, bone marrow, cervix/vagina, esophagus, eyes, femur, large and small intestine, lungs and trachea, lymph nodes, mammary gland, pancreas, salivary gland, sciatic nerve, skeletal muscle, skin, spinal cord, stomach, thymus, urinary bladder, uterus and Zymbal's gland. All tissues were sent to Dr. Ray Brown, Research Pathology Services, Inc., New Britain, Pennsylvania, for evaluation. Histological examination was performed for the control and high dosage groups of the P1 and F1 generation male and female rats. All gross lesions were examined histologically. The lungs and urinary bladder were inflated with neutral buffered 10% formalin. Results of the histopathological evaluations are available in APPENDIX J.

A portion of the left cauda epididymis was used for evaluation of cauda epididymal sperm count and motility. The remaining portion of the epididymis was retained in neutral buffered 10% formalin for further histological evaluation.

The left cauda epididymis was used to prepare a sample for evaluation of sperm motility through a swim out method. Slides prepared were analyzed by the Hamilton Thorne Computer Assisted Sperm Analyzer (CASA) until a minimum of 200 sperm cells or twenty fields had been evaluated. All images produced during analysis were saved to an optical disk and retained as raw data.

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a. See APPENDIX G, item 2.

A suspension prepared from the remaining portion of the left cauda epididymis was stained with Eosin Y and used to prepare four slides for each rat[a]. Approximately 200 sperm per rat were morphologically examined at 400 to 1000X magnification. Morphological endpoints analyzed consisted predominantly of head and tail abnormalities.

The suspension remaining after the preparation of slides for morphology for each rat was homogenized. A sample from the resulting homogenate was stained with an IDENT Stain Kit from Hamilton Thorne Research and a slide was prepared for analysis by the Hamilton Thorne CASA. Ten fields were analyzed from each sample to determine cauda epididymal sperm concentration (sperm per gram of tissue weight). All images produced during analysis were saved to an optical disk and retained as raw data.

The left testis was homogenized after weighing (both before and after removal of the tunica albuginea). A sample from the resulting homogenate was stained with an IDENT Stain Kit from Hamilton Thorne Research and a slide prepared for analysis by the Hamilton Thorne CASA. Ten fields were analyzed to determine testicular spermatid concentration (spermatids per gram of tissue weight). All images produced during analysis were saved to an optical disk and retained as raw data.

P1 and F1 generation female rats that did not deliver a litter were sacrificed on DG 25 by carbon dioxide asphyxiation and examined for pregnancy status. Female rats without a confirmed mating date that did not deliver a litter were sacrificed on an estimated DG 25. A gross necropsy of the thoracic, abdominal and pelvic viscera was performed. Uteri from rats that appeared nonpregnant were stained with 10% ammonium sulfide to confirm the absence of implantation sites[14]. Tissues with gross lesions were preserved in neutral buffered 10% formalin; all other tissues for the nonparental P1 generation female rats were discarded. All tissues saved from the P1 generation female rats sacrificed on DL 21 were also retained for the F1 generation female rats that did not deliver a litter or that had no confirmed date of mating. The thyroids and parathyroids from both the P1 and F1 generation female rats were immersed in fixative immediately after collection, as previously described. Representative photographs of gross lesions are available in the raw data.

Rats that died or were sacrificed because of moribund condition were examined for the cause of death or moribund condition on the day the observation was made. The rats were examined for gross lesions. Pregnancy status and uterine contents of female rats were recorded (when appropriate). Uteri of apparently

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a. See APPENDIX G, item 3.

nonpregnant rats were stained with 10% ammonium sulfide to confirm the absence of implantation sites[14]. Organs and tissues were retained and weighed as previously described.

F1 Generation Pups Not Selected For Continued Observation and F2 Generation Pups

Pups that died before examination of the litter for pup viability were evaluated for vital status at birth. The lungs were removed and immersed in water. Pups with lungs that sank were identified as stillborn; pups with lungs that floated were identified as liveborn and to have died shortly after birth. Pups with gross lesions were preserved in Bouin's solution for possible future evaluation. If postmortem autolysis precluded these evaluations, it was noted in the necropsy data.

Pups found dead or sacrificed due to moribund condition were examined for gross lesions and for the cause of the moribund condition or death. Pups found dead on DLs 2 to 4 that had gross lesions were preserved in Bouin's solution for possible future evaluation; gross lesions in pups found dead on DLs 5 to 21 were preserved in neutral buffered 10% formalin.

Pups were sacrificed by carbon dioxide asphyxiation on DL 21. At least three pups/sex/litter were necropsied and examined for gross lesions; gross lesions were retained in neutral buffered 10% formalin. Gross necropsy included an initial physical examination of external surfaces and all orifices, as well as an internal examination of tissues and organs *in situ*. The following were examined: external and internal portions of all hollow organs; the external surfaces of the brain and spinal column, the nasal cavity and neck with associated organs and tissues; the thoracic, abdominal and pelvic cavities with associated organs and tissues; and the musculo/skeletal carcass. The urinary bladder and lungs were perfused with neutral buffered 10% formalin. Necropsy included a single cross-section of the head at the level of the frontal-parietal suture and examination of the cross-sectioned brain for apparent hydrocephaly.

The following organs from the three pups/sex/litter were retained in neutral buffered 10% formalin for histopathological evaluation: adrenal glands, brain, thyroid/parathyroid[a], liver, spleen, kidneys and thymus. The following organs were weighed prior to fixation and retained: brain, thymus and spleen. Following fixation, thyroid/parathyroid tissue samples were carefully trimmed and weighed. The same technician performed all trimming of the thyroid/parathyroid tissues at least 48 hours post fixation. All tissues were sent to Research Pathology Services, Inc. for histopathological evaluation. At sacrifice, blood was collected

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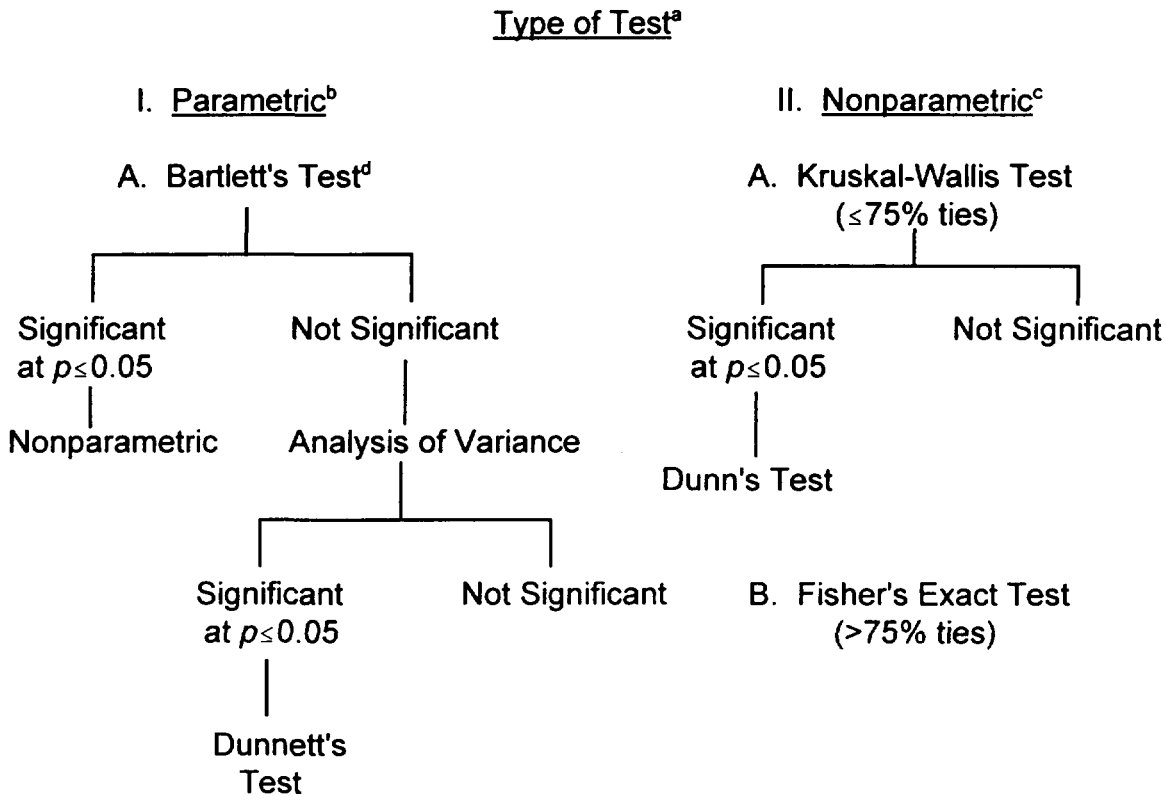
a. See APPENDIX G, item 4.

via the inferior vena cava from the three pups per sex selected for weanling necropsy. Whole blood samples, pooled by sex per litter, collected into serum separator tubes and centrifuged, were retained for analysis of TSH, T_3 and T_4 levels. The resulting sera samples were aliquotted into three separate vials (approximately 500 µl of sera per aliquot), immediately frozen on dry ice and maintained frozen at the Testing Facility until shipment for analysis to AniLytics at the address previously cited. Results of these analyses are available in APPENDIX K.

G.9. Statistical Analysis:

The following schematic represents the statistical analyses of data:



III. Test for Proportion Data

Variance Test for Homogeneity of the Binomial Distribution

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a. Statistically significant probabilities are reported as either $p \leq 0.05$ or $p \leq 0.01$.
b. Used only to analyze data with homogeneity of variance.
c. Proportion data are not included in this category.
d. Test for homogeneity of variance.

Clinical observations and other proportion data were analyzed using the Variance Test for Homogeneity of the Binomial Distribution[15].

Continuous data (e.g., body weights, body weight changes, feed consumption data, organ weights, duration of gestation, litter averages for pup body weights, percent male pups, pup viability and cumulative survival) were analyzed using Bartlett's Test of Homogeneity of Variances[16] and the Analysis of Variance[17], when appropriate [i.e., Bartlett's Test was not significant ($p>0.05$)]. If the Analysis of Variance was significant ($p\leq 0.05$), Dunnett's Test[18] was used to identify the statistical significance of the individual groups. If the Analysis of Variance was not appropriate [i.e., Bartlett's Test was significant ($p\leq 0.05$)], the Kruskal-Wallis Test[19] was used, when 75% or fewer ties were present; when more than 75% ties were present, Fisher's Exact Test[20] was used. In cases where the Kruskal-Wallis Test was statistically significant ($p\leq 0.05$), Dunn's Method of Multiple Comparisons[21] was used to identify the statistical significance of the individual groups.

All other natural delivery data involving discrete data were evaluated using the Kruskal-Wallis Test[19] procedures previously described.

III. RESULTS - P1 GENERATION MALE RATS

A. Consumed Dosages (Summary - Table B1)

The average actual consumed daily dosages for the male rats for the entire exposure period (calculated as days 1 to 134 of the study) were 0, 0.3, 3.1 and 30.8 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100.0%, 100.0%, 103.3% and 102.7% of target, respectively.

B. Mortality and Clinical Observations (Summary - Table B2; Individual Data - Table B16)

B.1. Mortality

One carrier group rat was found dead and one 30.0 mg/kg/day target dosage group rat was moribund sacrificed. These deaths were considered unrelated to the test substance because one occurred in a carrier group rat and the other death was the result of an injury. All other rats survived to scheduled sacrifice. Observations in the rats that died or were moribund sacrificed are described below.

Carrier group rat 3626 was found dead on day 80 of the study (DS 80). Clinical observations included a lesion on the neck on DSs 10 to 13, which was healed on DS 14 and localized alopecia on the head on DSs 14 to 21, which was resolved on DS 22. Feed and water consumption and body weight gains were comparable to other carrier group male rats. Necropsy revealed misaligned upper incisors; all other tissues appeared normal.

Rat 3698 in the 30.0 mg/kg/day target dosage group was moribund sacrificed on DS 40 because it possibly had a broken palate. Clinical observations on DS 40 were related to the injury and included chromodacryorrhea, swollen snout, vocalization and misaligned/missing/broken incisors. Feed and water consumption and body weight gains were comparable to other male rats in this exposure group. The broken palate was not confirmed by necropsy, however the adverse clinical observations of chromodacryorrhea, swollen snout and misaligned/missing/broken incisors were confirmed; all other tissues appeared normal.

B.2. Clinical Observations

No clinical observations that occurred in the P1 generation male rats were considered related to the test substance because: 1) the incidences were not dosage-dependent; and/or 2) the observation commonly occurs in this strain of rat. These observations included lesions, localized alopecia, chromorhinorrhea,

dental problems, chromodacryorrhea, swollen snout, dehydration, lenticular opacity, head tilt, exophthalmos and a mass on the neck.

The incidence of chromorhinorrhea was significantly increased ($p \leq 0.01$) in the 0.3 mg/kg/day target dosage group, compared to the carrier group. This significant increase was not considered treatment-related because it was not dosage-dependent.

C. Body Weights and Body Weight Changes (Figure 1; Summaries - Tables B3 and B4; Individual Data - Table B17)

Average body weights and body weight changes for P1 generation male rats were comparable among the four exposure groups through DS 134. Body weight gains for P1 generation male rats in the 0.3 and 3.0 mg/kg/day target dosage groups were significantly increased ($p \leq 0.05$ and $p \leq 0.01$, respectively) on DSs 22 to 29, compared to the carrier group. These significant increases were not considered treatment-related because they were not dosage-dependent and only occurred once.

D. Absolute (g/day) and Relative (g/kg/day) Water Consumption Values (Summaries - Tables B5 and B6; Individual Data - Table B18)

Absolute (g/day) and relative (g/kg/day) water consumption values for P1 generation male rats in the 30.0 mg/kg/day target dosage group were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) on DSs 36 to 43, 50 to 57, 57 to 64 (absolute only), 64 to 71, 92 to 99, 113 to 120, 127 to 134 (relative only) and for the entire exposure period (DSs 1 to 134), compared to the carrier group. These reductions in water consumption were considered treatment-related because they were dosage-dependent and occurred over the entire exposure period.

Absolute and relative water consumption values were unaffected by the 0.3 and 3.0 mg/kg/day targeted dosages of the test substance. Absolute water consumption values for P1 generation male rats in the 0.3 mg/kg/day target dosage group were significantly reduced ($p \leq 0.05$) on DSs 92 to 99 and relative water consumption values were significantly reduced ($p \leq 0.05$) on DSs 64 to 71, 92 to 99, 113 to 120, 127 to 134 and for the entire exposure period (DSs 1 to 134), compared to the carrier group. These reductions in water consumption were not considered treatment-related because they were not dosage-dependent.

E. Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values (Summaries - Tables B7 and B8; Individual Data - Table B19)

Absolute (g/day) and relative (g/kg/day) feed consumption values were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day. Absolute feed consumption values for P1 generation male rats in the 3.0 mg/kg/day target dosage group were significantly increased ($p \leq 0.05$) on DSs 29 to 36, 43 to 50, 99 to 106, 106 to 113 and 127 to 134, compared to the carrier group. These increases in feed consumption were not considered treatment-related because they were not dosage-dependent and did not occur over the entire exposure period (DSs 1 to 134). Relative feed consumption values for the male rats were comparable among the four groups for the entire exposure period. Statistical analyses indicated no differences among the exposure groups ($p>0.05$).

F. Mating and Fertility (Summary - Table B9; Individual Data - Table B20)

A total of 30 (100%), 26 (86.7%)**, 29 (96.7%) and 29 (100%) male rats mated. Targeted dosages of the test substance as high as 30.0 mg/kg/day did not affect the fertility index (number of pregnancies per number mated), the number of days in cohabitation, or the numbers of rats pregnant per rats in cohabitation. The significant reduction ($p \leq 0.01$) in the number of male rats that mated in the 0.3 mg/kg/day target dosage group was considered unrelated to treatment because the value was not dosage-dependent.

G. Necropsy Observations (Summary - Table B10; Individual Data - Table B21)

No necropsy observations were considered related to the test substance in the P1 generation male rats because the incidences were not dosage-dependent and/or the observation commonly occurs in this strain of rat. These observations included a large spleen in one 30.0 mg/kg/day target dosage group male (3712), small testes and epididymides in one 3.0 mg/kg/day target dosage group male (3671), a tan mass on the left cauda epididymis of one 0.3 mg/kg/day target dosage group male (3639) and misaligned incisors in one carrier group male (3626).

** Significantly different from the carrier group value ($p \leq 0.01$).

H. Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight (Summaries - Tables B11 through B13; Individual Data - Tables B22 and B23)

Terminal body weights were comparable among the four exposure groups; values were 102.1%, 105.2% and 100.8% of the carrier group value in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, respectively. Absolute thyroid weights were increased in all three treated groups in a dosage-dependent manner; the increases were significant in the 3.0 and 30.0 mg/kg/day target dosage groups at $p \leq 0.05$ and $p \leq 0.01$, respectively. The thyroid weights were 105.1%, 110.2%, and 130.8% of the carrier group values in the three respective treated groups. The ratios of thyroid weight to terminal body weight and to the absolute brain weight were also significantly increased ($p \leq 0.01$) in the 30.0 mg/kg/day target dosage group. These increases in absolute and relative thyroid weights were considered treatment-related because they were dosage-dependent.

No other biologically important differences occurred. The weights of the left and right epididymides, left cauda epididymis, left and right testes, left testis minus tunica albuginea, seminal vesicles (with and without fluid), prostate, pituitary, brain, liver, kidneys, adrenals and heart and the ratios of these organ weights to the terminal body weight or absolute brain weight of the P1 generation male rats were comparable among the four exposure groups and did not differ significantly ($p>0.05$). The absolute spleen weight was significantly increased ($p \leq 0.05$) in the 0.3 mg/kg/day target dosage group, compared to the carrier group, but was not considered treatment-related because it was not dosage-dependent.

I. Sperm Evaluation (Summaries - Tables B14 and B15; Individual Data - Tables B24 and B25)

I.1. Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count (Summary - Table B14; Individual Data - Table B24)

No statistically significant or dosage-dependent differences occurred in the number of motile sperm or the percentage of motile sperm and the number of nonmotile sperm (static). Cauda epididymal sperm count, concentration and density and spermatid count, concentration and density were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day. There were no statistically significant differences among the four exposure groups.

I.2. Cauda Epididymal Sperm Morphology (Summary - Table B15; Individual Data - Table B25)

Evaluation of cauda epididymal sperm morphology did not identify any statistically significant or biologically important differences among the four exposure groups in the number of morphologically normal or abnormal sperm or the percent morphologically abnormal sperm.

J. Histopathology (APPENDIX J)

Exposure-related histomorphologic changes were observed in the thyroid gland of P1 generation male rats. These changes were primarily hypertrophy and hyperplasia of the thyroid follicular epithelium.

In many of the affected thyroids there were increased numbers of small follicles (hyperplasia) and these follicles had enlarged (hypertrophied) follicular epithelial cells. In the thyroids with a moderate or marked hyperplasia/hypertrophy, there was a decrease or complete absence of visible colloid in the affected follicles. The incidence by degree of severity of the thyroid changes in the P1 generation male rats is presented below:

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	0/30	2/30	1/30	0/30
-mild	1/30	5/30	5/30	0/30
-moderate	1/30	2/30	11/30	1/30
-marked	0/30	0/30	8/30	29/30
Total	2/30	9/30	25/30**	30/30**

** Significantly different from the carrier group value ($p \leq 0.01$).

The degree of the thyroid change ranged from minimal to marked and generally occurred in a exposure-related fashion. The incidence of hyperplasia/ hypertrophy was significantly increased ($p \leq 0.01$) in the 3.0 and 30.0 mg/kg/day target dosage groups. An increased incidence of the hyperplasia/hypertrophy, albeit not significant, also occurred in the 0.3 mg/kg/day target dosage group and was judged to be exposure-related.

All other microscopic changes observed in the other organs and tissues specified for examination from the P1 generation male rats exposed to 30.0 mg/kg/day of ammonium perchlorate were considered to have occurred spontaneously in male rats used in reproductive studies and to be unrelated to exposure.

K. Thyroid and Pituitary Hormone Analyses (APPENDIX K)

For the P1 generation adult male rats, a significant increase ($p \leq 0.01$) in thyroid stimulating hormone (TSH) levels and a concomitant significant decrease ($p \leq 0.01$) in serum thyroxine (T_4) values occurred in the 30.0 mg/kg/day target dosage group, as compared to the carrier group value. Significant increases ($p \leq 0.01$) in serum triiodothyronine (T_3) levels occurred in the 0.3 and 3.0 mg/kg/day target dosage groups, as compared to the carrier group value. These increases in serum T_3 levels were not considered an effect of the test substance because: 1) the values were not increased in an exposure-dependent manner; and 2) ammonium perchlorate would cause a reduction, rather than an increase, in serum T_3.

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
T_3 (ng/dL)	72.6	87.4**	88.4**	78.6
T_4 (µg/dL)	4.64	4.73	4.74	3.58**
TSH (ng/mL)	1.53	1.35	1.49	3.87**

** Significantly different from the carrier group value ($p \leq 0.01$).

IV. RESULTS - P1 GENERATION FEMALE RATS

A. Consumed Dosages (Summary - Table C1)

The average actual consumed dosages for female rats for the entire precohabitation period (calculated as days 1 to 71 of the study) were 0, 0.3, 3.2 and 30.0 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100.0%, 100.0%, 106.7% and 100.0% of target, respectively. The average actual consumed dosages for female rats for the gestation period (calculated as days 0 to 21 of gestation) were 0, 0.4, 4.0 and 40.2 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100.0%, 133.3%, 133.3% and 134.0% of target, respectively. The average actual consumed dosages for female rats for the lactation period (calculated as days 1 to 14 of lactation) were 0, 0.3, 3.3 and 31.6 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100.0%, 100.0%, 110.0% and 105.3% of target, respectively.

B. Mortality and Clinical Observations (Summary - Table C2; Individual Data - Table C32)

B.1. Mortality

There were no deaths, abortions or premature deliveries in the P1 generation female rats attributed to the test substance. One dam in the 3.0 mg/kg/day target dosage group was moribund sacrificed on day 9 of gestation (DG 9) as the result of an injury. All other rats survived to scheduled sacrifice. Observations in the rat that was moribund sacrificed are described below.

Rat 3881 in the 3.0 mg/kg/day target dosage group was moribund sacrificed on DG 9 because of a broken palate. Clinical observations on DG 9 were related to the broken palate and included chromorhinorrhea, chromodacryorrhea, swollen snout, misaligned incisors and labored breathing. Feed and water consumption and body weight gains were comparable to other female rats in this exposure group. The adverse clinical observations of broken palate, chromorhinorrhea, chromodacryorrhea, swollen snout and misaligned incisors were confirmed at necropsy; all other tissues appeared normal. The uterus contained 18 conceptuses.

B.2. Clinical Observations

All clinical observations were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; 2) the observations occurred in only one to three rats; and/or 3) the observations are common events in the laboratory environment. Clinical observations during the precohabitation period included lesions, localized alopecia, dental problems, dehydration,

chromorhinorrhea, chromodacryorrhea and head tilt. Clinical observations during the gestation period included dental problems, swollen and purple ears, lesions, localized alopecia, chromorhinorrhea, chromodacryorrhea, swollen snout, broken hard palate, labored breathing and head tilt. Clinical observations during the lactation period included dental problems, lesion on the nose, swollen and purple ears, chromorhinorrhea, localized alopecia, chromodacryorrhea, masses in the right inguinal and flank areas, red perivaginal substance, pale skin and head tilt.

The total incidence of localized alopecia and the incidence of localized alopecia on the underside were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) during lactation in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, compared to the carrier group. These significant decreases were not considered treatment-related because they were not dosage dependent.

C. **Body Weights and Body Weight Changes (Figure 2; Summaries - Tables C3 through C8; Individual Data - Tables C33 through C35)**

Average maternal body weights and body weight gains for P1 generation female rats during the precohabitation, gestation and lactation periods were comparable among the four exposure groups. Statistical analyses indicated no differences among the groups ($p>0.05$).

D. **Absolute (g/day) and Relative (g/kg/day) Water Consumption Values (Summaries - Tables C9 through C14; Individual Data - Tables C36 though C38)**

Average maternal absolute (g/day) and relative (g/kg/day) water consumption values for P1 generation female rats during the precohabitation, gestation and lactation periods were comparable among the four exposure groups. Statistical analyses indicated no differences among the groups ($p>0.05$).

E. **Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values (Summaries - Tables C15 through C20; Individual Data - Tables C39 through C41)**

Average maternal absolute (g/day) and relative (g/kg/day) feed consumption for P1 generation female rats during the precohabitation, gestation and lactation periods were generally comparable among the four exposure groups. Relative feed consumption values for the 3.0 mg/kg/day target dosage group were significantly increased ($p \leq 0.01$) during the precohabitation period on DSs 15 to 22 and 36 to 43, and significantly increased ($p \leq 0.05$) on days 1 to 4 of lactation (DLs 1 to 4) for the 0.3 mg/kg/day target dosage group, compared to the carrier group values. These increases in relative feed consumption values were not

considered treatment-related because they were not dosage-dependent and they did not persist.

F. **Estrous Cycling, Mating and Fertility (Summary - Table C21; Individual Data - Table C42)**

Estrous cycling observations were comparable among the treated female rats prior to cohabitation. As previously noted for the male rats, a significantly reduced ($p \leq 0.01$) number of female rats were mated in the 0.3 mg/kg/day target dosage group. This reduction was not considered related to the test substance because the effect was not dosage-dependent. The fertility index (number of pregnancies per number of rats that mated), number of rats mated during the first and second weeks of cohabitation and the number of pregnant rats per rats in cohabitation were comparable among the four exposure groups. Statistical analyses indicated no other differences among the groups ($p > 0.05$).

G. **Necropsy Observations (Summary - Table C25; Individual Data - Table C48)**

No necropsy observations were considered related to the test substance in the P1 generation female rats because the incidences were not dosage-dependent and/or the observation commonly occurs in this strain of rat. These observations included constricted right uterine horn in one carrier group female rat (3802; this rat was pregnant and had only four live pups; the uterus contained five implantation sites on the left uterine horn and no implantation sites on the right), moderate to extreme hydrometra and vagina distended with clear fluid in one carrier group female (3820; this rat had been mated but was not pregnant), moderate hydrometra in one 30.0 mg/kg/day target dosage group rat (3903; this rat had been mated but was not pregnant) and pinworms in the colon of one 30.0 mg/kg/day target dosage group female (3906).

H. **Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight (Summaries - Tables C26 through C28; Individual Data - Tables C49 and C50)**

Terminal body weights were comparable in the four exposure groups; values were 102.1%, 102.7% and 100.3% of the carrier group value in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, respectively. Absolute thyroid weights were significantly increased ($p \leq 0.01$) in the 30.0 mg/kg/day target dosage group, compared to the carrier group. Thyroid weights were 104.2%, 104.2%, and 125.0% of the carrier group values in the three respective treated groups. The ratios of thyroid weight to terminal body weight and to the absolute brain weight were also significantly increased ($p \leq 0.01$) in the 30.0 mg/kg/day target dosage

group. These increases in absolute and relative thyroid weights were considered treatment-related because they were dosage-dependent.

No other biologically important differences occurred. The weights of the pituitary, brain, liver, kidneys, adrenals, spleen and heart and the ratios of these organ weights to the terminal body weight or absolute brain weight of the P1 generation female rats were comparable among the four exposure groups and did not differ significantly ($p>0.05$). The absolute weight of the ovaries was significantly increased ($p\leq0.05$) in the 0.3 mg/kg/day target dosage group, compared to the carrier group, but was not considered treatment-related because it was not dosage-dependent.

I. Natural Delivery and Litter Observations (Summaries - Tables C22 and C23; Individual Data - Tables C43 through C46)

There were 28 (93.3%), 22 (73.3%), 26 (86.7%) and 24 (80.0%) pregnant P1 generation dams in the 0 (Carrier), 0.3 , 3.0 and 30.0 mg/kg/day target dosage groups, respectively. All of these dams delivered litters, except for the dam in the 3.0 mg/kg/day target dosage group that was moribund sacrificed on DG 9.

Natural delivery observations were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day. The gestation index (number of rats with live offspring per number of pregnant rats) was 100% in each of the four exposure groups. The number of dams delivering litters, the duration of gestation, averages for implantations, live litter sizes and stillbirths, dams with stillborn pups, viability and lactation indices, sex ratios and pup body weights were comparable among the four exposure groups and did not significantly differ. No dams had all pups die before DL 21.

The lactation index (number of live pups on DL 21 per number of live pups on DL 4) was significantly increased ($p\leq0.05$ to $p\leq0.01$) in the 3.0 and 30.0 mg/kg/day target dosage groups, compared to the carrier group. These increases were not considered treatment-related because the expected effect of a toxicant would be a decrease, rather than an increase, in pup survival.

J. Pup Clinical and Necropsy Observations From Birth To Day 21 Postpartum (Summaries - Tables C24 and C29; Individual Data - Tables C47 and C51)

All clinical and necropsy observations in the F1 generation pups were considered unrelated to the test substance. Transient, adverse clinical observations in the pups, each occurring in a single pup in a group, consisted of a swollen forepaw or hindlimb, a raised black area on a hindpaw or the nose, not nursing, yellow appearance, swollen snout, dry skin on the neck, abrasion, scab, anophthalmos,

decreased motor activity, lost righting reflex, emaciation, dyspnea, blue appearance, labored breathing, ulceration and thin appearance. Persistent, adverse clinical observations occurring in one or two pups per litter in one to three litters in a group, consisted of portion of tail black, portion of tail missing and tail constricted.

Necropsy of stillborn, found dead and moribund sacrificed pups revealed no milk in stomach in 4, 6, 1 and 2 pups from 4, 5, 1 and 2 litters from the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, respectively. One stillborn pup in a 30.0 mg/kg/day target dosage group litter (3913) had a protruding tongue, micrognathia, short snout, low set ears, open left eyelid, spina bifida and flexed right forepaw.

At necropsy of F1 generation pups sacrificed on DL 21, slight to moderate dilation of the pelvis of the right kidney occurred in 1, 1, 0 and 4 pups from 1, 1, 0 and 2 litters in the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, respectively.

K. Organ Weights - F1 Generation Pups (Summaries - Tables C30 and C31; Individual Data - Tables C52 and C53)

The weight of the thyroid and parathyroid glands was significantly increased ($p \leq 0.01$) for both male and female pups in the 30.0 mg/kg/day target dosage group. The weight of the spleen was somewhat increased in all treated groups (107.7% to 115.4% of the carrier group value); the increases were dosage-dependent for the male pups, and the weight was significantly increased ($p \leq 0.05$) in the 30.0 mg/kg/day target dosage group female pups.

The weights of all other tissues (brain and thymus) were comparable among the four exposure groups for both male and female pups.

L. Histopathology - P1 Generation Female Rats and F1 Generation Pups (APPENDIX J)

L.1. P1 Generation Female Rats

Exposure-related histomorphologic changes were observed in the thyroid gland of parental female P1 generation rats. Theses changes were primarily hypertrophy and hyperplasia of the thyroid follicular epithelium.

In many of the affected thyroids there were increased numbers of small follicles (hyperplasia) and these follicles had enlarged (hypertrophied) follicular epithelial cells. In the thyroids with a moderate or marked hyperplasia/hypertrophy, there was a decrease or complete absence of visible colloid in the affected follicles.

The incidence by degree of severity of the thyroid changes in the P1 generation female rats is presented below:

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	2/28	4/21	4/26	0/24
-mild	1/28	3/21	8/26	0/24
-moderate	1/28	3/21	8/26	2/24
-marked	0/28	0/21	0/26	22/24
Total	4/28	10/21	20/26**	24/24**

** Significantly different from the carrier group value ($p \leq 0.01$).

The degree of the thyroid change ranged from minimal to marked and generally occurred in a exposure-related fashion. The incidence of hyperplasia/ hypertrophy was significantly increased ($p \leq 0.01$) in the 3.0 and 30.0 mg/kg/day target dosage groups. An increased incidence and severity of hyperplasia/ hypertrophy, albeit not significant, also occurred in the 0.3 mg/kg/day target dosage group and was judged to be exposure-related.

All other microscopic changes observed in the other organs and tissues specified for examination from the P1 generation female rats exposed to 30.0 mg/kg/day of ammonium perchlorate were considered to have occurred spontaneously in female rats used in reproductive studies and to be unrelated to exposure.

L.2. F1 Generation Pups

Exposure-related histomorphologic changes were observed in the thyroid gland of F1 generation male and female pups. These changes were primarily hypertrophy and hyperplasia of the thyroid follicular epithelium.

In many of the affected thyroids there were increased numbers of small follicles (hyperplasia) and these follicles had enlarged (hypertrophied) follicular epithelial cells. In the thyroids with a moderate or marked hyperplasia/hypertrophy, there was a decrease or complete absence of visible colloid in the affected follicles. The incidence by degree of severity of the thyroid changes in the F1 generation male and female pups is presented below:

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Male Pups - Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	2/28	3/22	3/25	3/23
-mild	1/28	1/22	10/25	8/23
-moderate	0/28	0/22	1/25	10/23
-marked	0/28	0/22	0/25	2/23
Total	3/28	4/22	14/25	23/23**
Female Pups - Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	1/28	3/22	9/24	0/23
-mild	2/28	2/22	4/24	3/23
-moderate	0/28	0/22	3/24	13/23
-marked	0/28	0/22	0/24	7/23
Total	3/28	5/22	16/24*	23/23**

* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

The degree of the thyroid change ranged from minimal to marked and generally occurred in a exposure-related fashion. The incidence of hyperplasia/ hypertrophy was significantly increased ($p \leq 0.01$ or $p \leq 0.05$) in the 30.0 mg/kg/day target dosage group for both the male and female pups and in the 3.0 mg/kg/day target dosage group for the female pups. An increased incidence and severity of hyperplasia/hypertrophy, albeit not significant, also occurred in the 3.0 mg/kg/day target dosage group in the male pups and was judged to be exposure-related. The incidence in the 0.3 mg/kg/day target dosage group F1 generation male and female pups was considered to be comparable to the carrier group.

All other microscopic changes observed in the other organs and tissues specified for examination from the F1 generation male and female pups exposed to 30.0 mg/kg/day of ammonium perchlorate were considered to have occurred spontaneously in rats used in reproductive studies and to be unrelated to exposure.

M. Thyroid and Pituitary Hormone Analyses - P1 Generation Female Rats and F1 Generation Pups (APPENDIX K)

M.1. P1 Generation Female Rats

Thyroid and pituitary hormone levels in the P1 generation female rats were unaffected by exposure to targeted dosages of ammonium perchlorate as high as 30.0 mg/kg/day. Serum thyroxine (T_4) levels were significantly increased in the 0.3 and 3.0 mg/kg/day target dosage groups. These increases were not considered an effect of the test substance because: 1) the increases were not dosage-dependent; and 2) ammonium perchlorate would cause a reduction, rather than an increase, in serum T_4.

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
T_3 (ng/dL)	57.8	64.8	56.4	60.4
T_4 (µg/dL)	2.13	2.90**	2.92**	2.42
TSH (ng/mL)	2.05	2.21	1.99	2.17

** Significantly different from the carrier group value ($p \leq 0.01$).

M.2. F1 Generation Pups

Serum triiodothyronine (T_3) level was significantly reduced ($p \leq 0.05$) for the female pups in the 30.0 mg/kg/day target dosage group, compared to the carrier group value. This reduction in serum T_3 level was considered an effect of the test substance because: 1) the reduction was exposure-dependent; and 2) ammonium perchlorate causes a decrease in serum T_3 production.

Thyroid stimulating hormone (TSH) levels were significantly reduced ($p \leq 0.01$) for male pups in the 0.3 and 3.0 mg/kg/day target dosage groups, as compared to the carrier group value. Serum T_4 values were significantly increased ($p \leq 0.05$) for female pups in the 0.3 mg/kg/day target dosage group. These reductions in serum TSH levels and increases in serum levels were not considered effects of the test substance because: 1) the increases were not dosage-dependent; 2) ammonium perchlorate would cause an increase, rather than a reduction in serum TSH; and/or 3) ammonium perchlorate would cause a reduction, rather than an increase in serum T4.

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Male Pups				
T_3 (ng/dL)	105.9	111.2	109.8	107.4
T_4 (µg/dL)	4.40	4.62	4.53	4.52
TSH (ng/mL)	1.24	0.94**	0.88**	1.27
Female Pups				
T_3 (ng/dL)	106.0	109.9	109.3	97.6*
T_4 (µg/dL)	4.27	4.86*	4.32	3.91
TSH (ng/mL)	1.12	1.19	1.14	1.30

* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

V. RESULTS - F1 GENERATION MALE RATS

A. Consumed Dosages (Summary - Table D1)

The average actual consumed daily dosages for the male rats for the entire exposure period (calculated as days 1 to 127 postweaning) were 0, 0.3, 2.7 and 26.5 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100%, 100%, 90.0% and 88.3% of target, respectively.

B. Mortality and Clinical Observations (Summary - Table D2; Individual Data - Table D17)

B.1. Mortality

Three** male F1 generation rats in the 30.0 mg/kg/day target dosage group were found dead. All other rats survived to scheduled sacrifice. All three of these rats had different P1 generation dams and sires. These deaths were considered unrelated to the test substance because there were no in-life or necropsy findings related to toxicity. Observations in the rats that died are described below.

Rat 7111 was found dead on day 131 postweaning (DP 131) and had been exposed to the test substance for 131 days postweaning. Clinical observations were limited to chromorhinorrhea (DPs 94, 107 and 118 to 119). Feed and water consumption and body weight gains were comparable to other high exposure group male rats. This male mated and sired a litter (F1 generation female rat 7313). All tissues appeared normal at necropsy.

Rat 7113 was found dead on DP 95 and had been exposed to the test substance for 95 days postweaning. Clinical observations were limited to a convulsion on DP 95. Feed and water consumption and body weight gains were comparable to other high exposure group male rats. This male mated and sired a litter (F1 generation female rat 7293). All tissues appeared normal at necropsy.

Rat 7115 was found dead on DP 82 and had been exposed to the test substance for 82 days postweaning. Clinical observations were limited to soft or liquid feces (DPs 67 and 73). Feed and water consumption and body weight gains were comparable to other high exposure group male rats. This male died prior to cohabitation. All tissues appeared normal at necropsy.

** Significantly different from the carrier group value ($p \leq 0.01$).

B.2. Clinical Observations

All clinical observations that occurred in the F1 generation male rats were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and/or 2) the observation commonly occurs in this strain of rat. These observations included chromorhinorrhea, skin lesions, dental problems, localized alopecia, soft or liquid feces, chromodacryorrhea, bent forepaw digit, corneal opacity, convulsion, scab on the back and swollen and purple ears.

C. Body Weights and Body Weight Changes (Figure 3; Summaries - Tables D3 and D4; Individual Data - Table D18)

Average body weights and body weight gains for F1 generation male rats were comparable among the four exposure groups. Statistically significant increases that occurred (as described in the following paragraph) were not considered treatment-related because they were not dosage-dependent.

Body weight gains were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 0.3 mg/kg/day target dosage group on DPs 15 to 22, 50 to 57 and 85 to 92; in the 3.0 mg/kg/day target dosage group on DPs 22 to 29, 50 to 57 and 85 to 92; and in the 30.0 mg/kg/day target dosage group on DPs 22 to 29. As a result of these changes, body weight gains were significantly increased ($p \leq 0.05$) in the 0.3 mg/kg/day target dosage group for the entire precohabitation period and from DPs 1 to 127. Average body weights were significantly increased ($p \leq 0.05$ or $p \leq 0.01$), as compared to the carrier group, in the 0.3 mg/kg/day target dosage group on DPs 64, 71, 92, 99, 106, 113, 120, 127, precohabitation and at termination and in the 3.0 mg/kg/day target dosage group on DPs 71 and 106.

D. Absolute (g/day) and Relative (g/kg/day) Water Consumption Values (Summaries - Tables D5 and D6; Individual Data - Table D19)

Absolute (g/day) and relative (g/kg/day) water consumption values for F1 generation male rats were unaffected by exposures up to 30.0 mg/kg/day of the test substance. Statistically significant reductions in relative water consumption (as described in the following paragraph) were considered unrelated to treatment because they were not dosage-dependent and occurred transiently over the entire postweaning period.

Relative (g/kg/day) water consumption values were significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the 0.3 mg/kg/day target dosage group on DPs 15 to 22, 22 to 29, 57 to 64, 106 to 113 and 113 to 120; in the 3.0 mg/kg/day target dosage group on DPs 15 to 22, 22 to 29, 57 to 64 and 106 to 113; and in the 30.0 mg/kg/day target dosage group on DPs 57 to 64, 106 to 113 and 113 to 120. As a result of these changes, relative water consumption values were significantly reduced

($p \leq 0.05$ or $p \leq 0.01$), as compared to the carrier group in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups for the entire precohabitation period (DPs 1 to 64) and in the 0.3 mg/kg/day target dosage group for DPs 1 to 127.

E. Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values (Summaries - Tables D7 and D8; Individual Data - Table D20)

Absolute (g/day) and relative (g/kg/day) feed consumption values were generally comparable at targeted dosages of the test substance as high as 30.0 mg/kg/day. Statistically significant increases in absolute and relative feed consumption values (as described in the following paragraph) were not considered treatment-related because they were not dosage-dependent and did not persist for the entire postweaning period (DPs 1 to 127).

Absolute feed consumption values were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 0.3 mg/kg/day target dosage group on DPs 99 to 106; and in the 3.0 mg/kg/day target dosage group on DPs 50 to 57 and 99 to 106, as compared to the carrier group. Relative feed consumption values for F1 generation male rats in the 0.3 and 30.0 mg/kg/day target dosage groups were significantly increased ($p \leq 0.05$) on DPs 1 to 8, as compared to the carrier group.

F. Sexual Maturation (Summary - Table D9; Individual Data - Table D21)

Target dosages of the test substance as high as 30.0 mg/kg/day did not affect the average day of preputial separation. No significant differences occurred among the four exposure groups.

G. Mating and Fertility (Summary - Table D10; Individual Data - Table D22)

A total of 29 (96.7%), 28 (96.6%), 30 (100%) and 29 (100%) male rats mated.

The fertility index (number of pregnancies per number mated) and the numbers of rats pregnant per rats in cohabitation were significantly increased ($p \leq 0.01$) in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, compared to the carrier group. This apparent significant increase in fertility of the male rats exposed to the test substance was considered unrelated to treatment because the values were not dosage-dependent and was actually due to the low fertility in the carrier group used for the statistical comparison.

Targeted dosages of the test substance as high as 30.0 mg/kg/day did not affect the number of days in cohabitation or the number of rats mating during the first or second week of cohabitation.

H. Necropsy Observations (Summary - Table D11; Individual Data - Table D23)

All necropsy observations were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; and/or 2) the observation commonly occurs in this strain of rat. These observations included slight dilation of the pelvis of the right kidney in one carrier dosage group male rat (7005) and in one 30.0 mg/kg/day target dosage group male rat (7120) and a lenticular opacity in one 30.0 mg/kg/day target dosage group male rat (7093).

One carrier group male rat (7004) had small and flaccid testes and epididymides and one 3.0 mg/kg/day target dosage group male rat (7070) had small and flaccid testes and epididymides and a mass on the prostate. Both of these rats mated but did not impregnate the cohort female rat.

I. Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight (Summaries - Tables D12 through D14; Individual Data - Tables D24 and D25)

Terminal body weights were significantly increased ($p \leq 0.05$) in the 0.3 mg/kg/day target dosage group, a non dosage-dependent event, unrelated to the test substance. Thyroid weights and the ratios of the thyroid weight to the terminal body weight and to the brain weight were significantly increased ($p \leq 0.01$) in the 3.0 and 30.0 mg/kg/day target dosage groups. These increases in absolute and relative thyroid weights were considered treatment-related because they were dosage-dependent.

The significant increases that occurred in the absolute weights of the left testis, right epididymis, pituitary, brain, liver, kidneys and spleen were not considered treatment-related because: 1) they were not dosage-dependent; 2) they did not also occur in the paired organ; and/or 3) did not also occur in the ratio of the organ weight to terminal body weight. The weight of the left testis was significantly increased ($p \leq 0.05$) in the 0.3 and 30.0 mg/kg/day target dosage groups; the weights of the right epididymis and the paired kidney were significantly increased ($p \leq 0.05$) in the 0.3 and 3.0 mg/kg/day target dosage groups; the brain weight was significantly increased ($p \leq 0.05$) in the 3.0 mg/kg/day target dosage group; the liver weight was significantly increased ($p \leq 0.01$) in the 0.3 mg/kg/day target dosage group; and the spleen weight was significantly increased ($p \leq 0.05$) in the 3.0 and 30.0 mg/kg/day target dosage groups. The weight of the pituitary and the ratios of the pituitary weight to the absolute brain weight were also significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 0.3 and 30.0 mg/kg/day target dosage groups.

J. Sperm Evaluation (Summaries - Tables D15 and D16; Individual Data - Tables D26 and D27)

J.1. Cauda Epididymal Sperm Motility, Count, Density and Spermatid Count

No statistically significant or dosage-dependent differences occurred in the number or percentage of motile sperm, the number of nonmotile sperm (static) and total count. Cauda epididymal sperm count, concentration and density and spermatid count, concentration and density were unaffected by targeted dosages of the test substance as high as 30.0 mg/kg/day. There were no statistically significant differences among the four exposure groups.

J.2. Cauda Epididymal Sperm Morphology

Evaluation of cauda epididymal sperm morphology of F1 generation male rats did not identify any statistically significant or biologically important differences among the four exposure groups in the number of morphologically normal or abnormal sperm or the percent morphologically abnormal sperm.

K. Histopathology - F1 Generation Male Rats (APPENDIX J)

Exposure-related histomorphologic changes were observed in the thyroid gland of the parental male F1 generation rats. These changes were primarily hypertrophy and hyperplasia of the thyroid follicular epithelium.

In many of the affected thyroids there were increased numbers of small follicles (hyperplasia) and these follicles had enlarged (hypertrophied) follicular epithelial cells. In the thyroids with a moderate or marked hyperplasia/hypertrophy, there was a decrease or complete absence of visible colloid in the affected follicles. The incidence by degree of severity of the thyroid changes in the F1 generation males is presented below:

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	0/30	0/30	3/30	0/30
-mild	3/30	4/30	5/30	0/30
-moderate	2/30	4/30	5/30	3/30
-marked	0/30	0/30	6/30	23/30
Total	5/30	8/30	19/30**	26/30**

** Significantly different from the carrier group value ($p \leq 0.01$).

The degree of the thyroid change ranged from minimal to marked and generally occurred in a exposure-related fashion. The incidence of hyperplasia/ hypertrophy was significantly increased ($p \leq 0.01$) in the 3.0 and 30.0 mg/kg/day target dosage groups. The incidence in the 0.3 mg/kg/day target dosage group was considered comparable to the carrier group.

All other microscopic changes observed in the other organs and tissues specified for examination from the F1 generation male parental rats exposed to 30.0 mg/kg/day ammonium perchlorate were considered to have occurred spontaneously in male rats used in reproductive studies and to be unrelated to exposure.

L. Thyroid and Pituitary Hormone Analyses - F1 Generation Male Rats (APPENDIX K)

For the F1 generation adult male rats, a significant increase ($p \leq 0.01$) in thyroid stimulating hormone (TSH) levels and a concomitant significant decrease ($p \leq 0.01$) in serum thyroxine (T_4) values occurred in the 30.0 mg/kg/day target dosage group, as compared to the carrier group value. Significant increases ($p \leq 0.05$) in serum T_4 levels occurred in the 0.3 and 3.0 mg/kg/day target dosage groups, as compared to the carrier group value. These increases in serum T_4 levels were not considered an effect of the test substance because: 1) the values were not increased in an exposure-dependent manner; and 2) ammonium perchlorate would cause a reduction, rather than an increase, in serum T_4.

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
T_3 (ng/dL)	82.5	81.3	83.2	83.0
T_4 (µg/dL)	3.78	4.21*	4.20*	2.78**
TSH (ng/mL)	2.51	2.16	2.30	5.18**

* Significantly different from the carrier group value ($p \leq 0.05$).

** Significantly different from the carrier group value ($p \leq 0.01$).

VI. RESULTS - F1 GENERATION FEMALE RATS

A. Consumed Dosages (Summary - Table E1)

The average actual consumed dosages for female rats for the entire precohabitation period (calculated as days 1 to 64 of the study) were 0, 0.3, 2.8 and 27.8 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100%, 100%, 93.3% and 92.7% of target, respectively. The average actual consumed dosages for female rats for the gestation period (calculated as days 0 to 21 of gestation) were 0, 0.2, 3.0 and 28.3 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100%, 66.7%, 100% and 94.3% of target, respectively. The average actual consumed dosages for female rats for the lactation period (calculated as days 1 to 14 of lactation) were 0, 0.4, 3.6 and 34.7 mg/kg/day for the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, or 100%, 133.3%, 120.0% and 115.7% of target, respectively.

B. Mortality and Clinical Observations (Summary - Table E2; Individual Data - Table E33)

B.1. Mortality

There were no deaths, abortions or premature deliveries in the F1 generation female rats attributed to the test substance. One female in the 0.3 mg/kg/day target dosage group was moribund sacrificed on day 62 postweaning (DP 62) as the result of a soft tissue mass and one dam in the 30.0 mg/kg/day target dosage group died on day 22 of gestation. All other rats survived to scheduled sacrifice. Observations for the rat that was moribund sacrificed and the rat that was found dead are described below.

Rat 7253 in the 0.3 mg/kg/day target dosage group was moribund sacrificed on DP 62 because of a large soft tissue growth on the neck that ruptured. The mass was present on the neck from DPs 23 to 62; there was a lesion on the mass from DPs 43 to 62. This rat also had chromorhinorrhea and chromacryorrhea (DP 43) and a pale appearance (DPs 60 to 62). Feed and water consumption and body weight gains were generally comparable to other female rats in this exposure group. Necropsy revealed a large spleen (5.11 g); all other tissues appeared normal.

Dam 7295 in the 30.0 mg/kg/day target dosage group, was found dead on gestation day (DG) 22, possibly as a result of dystocia. Adverse clinical observations included localized alopecia on the limbs on DPs 49 to 83 and DGs 0 to 21, and chromodacryorrhea on DG 21. Feed and water consumption and body weight gains were comparable to other female rats in this exposure group throughout the precohabitation and gestation periods. Necropsy revealed a red perivaginal substance, and confirmed the chromodacryorrhea; all other

tissues appeared normal. This rat was pregnant; there were 4 late resorptions, 1 early resorption and 11 dead fetuses *in utero*.

B.2. Clinical Observations

All clinical observations that occurred in the F1 generation female rats were considered unrelated to the test substance because: 1) the incidences were not dosage-dependent; 2) the observations occurred in only one to three rats in a group; and/or 3) the observations are common in the laboratory environment. These clinical observations included dental problems, localized alopecia, swollen snout, exophthalmos, corneal opacity, chromodacryorrhea, chromorhinorrhea, swollen and purple ears, tip of tail missing and umbilical hernia. Clinical observations that occurred only during the precohabitation period included skin lesions, swollen digit, mass on the neck and pale appearance. Clinical observations that occurred only during the gestation period included a lesion on the head and lacrimation. Clinical observations that occurred only during the lactation period included soft or liquid feces and red perivaginal substance.

C. Body Weights and Body Weight Changes (Figure 4; Summaries - Tables E3 through E8; Individual Data - Tables E34 through E36)

Average body weights and body weight gains for F1 generation female rats during the precohabitation, gestation and lactation periods were generally comparable among the four exposure groups. Statistically significant increases in body weight gains and body weights (as described in the following paragraph) were not considered treatment-related because they were transient.

Body weights and body weight gains during the precohabitation period for the female rats in the 30.0 mg/kg/day target dosage group were significantly increased ($p \leq 0.05$ and $p \leq 0.01$, respectively) on DP 15 and DPs 8 to 15, respectively. Body weight loss occurred in all exposure groups on days 10 to 14 of lactation (DLs 10 to 14); the loss was significantly less ($p \leq 0.05$) in the 3.0 and 30.0 mg/kg/day target dosage groups. Body weights for the female rats in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) on DL 14.

D. Absolute (g/day) and Relative (g/kg/day) Water Consumption Values (Summaries - Tables E9 through E14; Individual Data - Tables E37 though E39)

Average absolute (g/day) and relative (g/kg/day) water consumption values for F1 generation female rats during the precohabitation, gestation and lactation periods were comparable among the four exposure groups. Statistical analyses indicated no differences among the groups ($p>0.05$).

E. Absolute (g/day) and Relative (g/kg/day) Feed Consumption Values (Summaries - Tables E15 through E20; Individual Data - Tables E40 through E42)

Absolute (g/day) and relative (g/kg/day) feed consumption for F1 generation female rats during the precohabitation, gestation and lactation periods were generally comparable among the four exposure groups. Statistically significant differences in feed consumption values (as described in the following paragraph) were not considered treatment-related because: 1) they were not dosage-dependent; 2) they were transient; and 3) body weights were unaffected.

Absolute feed consumption values for the 3.0 mg/kg/day target dosage group were significantly increased ($p \leq 0.01$) during the precohabitation period on DPs 50 to 57 and relative feed consumption values for the 0.3 mg/kg/day target dosage group were significantly reduced ($p \leq 0.05$) on DPs 29 to 36, compared to the carrier group values. Relative feed consumption values during the lactation period were significantly reduced ($p \leq 0.01$ or $p \leq 0.05$) on DLs 1 to 4 in the 30.0 mg/kg/day target dosage group only, on DLs 4 to 7 in the 3.0 mg/kg/day target dosage group only and on DLs 7 to 10 in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups.

F. Sexual Maturation, Estrous Cycling, Mating and Fertility (Summaries - Tables E21 and E22; Individual Data - Tables E43 and E44)

Target dosages as high as 30.0 mg/kg/day of ammonium perchlorate did not affect the average day of vaginal patency for the F1 generation female rats. The significant decrease ($p \leq 0.05$) in the average day the vagina was patent in the 3.0 mg/kg/day target dosage group was considered unrelated to treatment because it was not dosage-dependent.

Estrous cycling observations were comparable among the treated female F1 generation rats prior to cohabitation.

The fertility index (number of pregnancies per number mated) and the numbers of rats pregnant per rats in cohabitation were significantly increased ($p \leq 0.01$) in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, as compared to the carrier group. This apparent significant increase in fertility of the female rats exposed to the test substance was considered unrelated to treatment because the values were not dosage-dependent and was actually due to the low fertility in the carrier group used for the statistical comparison.

Targeted dosages of the test substance as high as 30.0 mg/kg/day did not affect the number of days in cohabitation or the number of rats mating during the first or second week of cohabitation.

G. Natural Delivery and Litter Observations (Summaries - Tables E23 through E25; Individual Data - Tables E45 through E49)

There were 21 (70.0%), 27 (90.0%)**, 28 (96.6%)** and 27 (90.0%)** pregnant F1 generation dams in the 0 (Carrier), 0.3 , 3.0 and 30.0 mg/kg/day target dosage groups, respectively. One carrier group dam (7212) and one 30.0 mg/kg/day target dosage group dam (7293) had litters that consisted of only one or three early resorptions and were not delivered. One 30.0 mg/kg/day target dosage group dam (7295) was found dead on DG 22. All other dams delivered litters.

Exposure to the test substance at targeted dosages as high as 30.0 mg/kg/day did not adversely affect any parameter evaluated at natural delivery or during the 21-day lactation period (duration of gestation, averages for implantations and live litter sizes, number of dams with all pups dying during lactation, gestation, viability and lactation indices, sex ratios, body weights and clinical and necropsy observations). The percentages of liveborn pups and stillborn pups were significantly reduced and increased ($p \leq 0.01$), respectively, in the 30.0 mg/kg/day target dosage group. These changes were considered unrelated to the test substance because the average number of liveborn and stillborn pups per litter were comparable in the four exposure groups and did not differ significantly.

All clinical observations in the F2 generation pups were considered unrelated to the test substance. Adverse clinical observations in the pups, each occurring in one or two litters in a group, consisted of coldness to touch, thin appearance, umbilical hernia, labored breathing, no milk apparent in the stomach, lesion, mass on penis, pale appearance, blue coloration, not nursing and tip of tail missing or black. The incidence of litters with pups not nursing was significantly reduced ($p \leq 0.01$) in all three exposure groups, as compared to the carrier group. These significant reductions in the number of pups not nursing were not considered treatment-related because the expected effect of a toxicant would be a increase, rather than an decrease, in the incidence of this observation.

H. Necropsy Observations F1 Generation Female Rats (Summary - Table E26; Individual Data - Table E50)

No necropsy observations were considered related to the test substance in the F1 generation female rats because the incidences were not dosage-dependent and/or the observation occurred in only one rat in a group. These observations included a clear fluid-filled cyst on the spleen in one 30.0 mg/kg/day target dosage group female rat (7319), a large spleen in 0.3 mg/kg/day target dosage group female rat 7253 that was moribund sacrificed on DP 62, moderate hydrometra in both uterine horns of carrier group female rat 7212 that had a litter

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** Significantly different from the carrier group value ($p \leq 0.01$).

consisting of one early resorption on DG 25, red perivaginal substance in 30.0 mg/kg/day target dosage group rat 7295 that was found dead on DG 22, and chromodacryorrhea and dental problems in one 0.3 mg/kg/day target dosage group rat (7239).

I. Terminal Body Weights, Organ Weights, Ratios (%) of Organ Weight to Terminal Body Weight and Ratios (%) of Organ Weight to Brain Weight (Summaries - Tables E27 through E29; Individual Data - Tables E51 and E52)

Terminal body weights for the F1 generation female rats were comparable in the four exposure groups. Thyroid weights and the ratios of the thyroid weight to the terminal body weight and to the brain weight were significantly increased ($p \leq 0.05$ or $p \leq 0.01$) in the 0.3, 3.0 and 30.0 mg/kg/day target dosage groups. These increases in absolute and relative thyroid weights were considered treatment-related because they were dosage-dependent.

No other biologically important differences occurred. The absolute weight of the adrenal glands and the ratio of the liver weight to the terminal body weight were significantly reduced ($p \leq 0.05$) in the 30.0 mg/kg/day target dosage group, as compared to the carrier group. These increases were not considered treatment-related because they did not also occur in either the ratio of the organ weight to terminal body weight or in the absolute organ weight. The weights of the pituitary, brain, kidneys, spleen, ovaries and heart and the ratios of these organ weights to the terminal body weight or absolute brain weight of the F1 generation female rats were comparable among the four exposure groups and did not differ significantly ($p > 0.05$).

J. F2 Generation Pup Necropsy Observations (Summary - Table E30; Individual Data - Table E53)

All necropsy observations in the F2 generation pups were considered unrelated to the test substance because the incidences were not dosage-dependent and/or the observation occurred in only one litter in a group. Necropsy of found dead pups revealed no milk in the stomach in 2, 2, 8 and 4 pups from the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, respectively. Necropsy of the F2 generation pups on DL 21 revealed slight to extreme dilation of the pelvis of the right and/or left kidney occurred in 1, 0, 0 and 3 pups from 1, 0, 0 and 1 litters in the 0 (Carrier), 0.3, 3.0 and 30.0 mg/kg/day target dosage groups, respectively. A small left kidney occurred in two littermates in the 30.0 mg/kg/day target dosage group.

K. Organ Weights - F2 Generation Pups (Summaries - Tables E31 and E32; Individual Data - Tables E54 and E55)

The weights of all organs were unaffected by targeted exposures of the test substance as high as 30.0 mg/kg/day. The weight of the thyroid/parathyroid

glands was significantly increased ($p \leq 0.05$) for the female F2 generation pups in the 30.0 mg/kg/day target dosage group. This increase was considered unrelated to the test substance because: 1) the average weight was greater in the 3.0 mg/kg/day target dosage group, than in the 30.0 mg/kg/day target dosage group; and 2) a related increase did not occur for the F2 generation male pups. There was also a significant ($p \leq 0.05$) decrease in the weight of the thyroid/parathyroid glands of the 0.3 mg/kg/day target dosage group for the F2 male pups. The weight of the thymus was significantly reduced ($p \leq 0.05$ or $p \leq 0.01$) in the male and female pups in the 0.3 mg/kg/day target dosage group, as compared to the carrier group. This significant reduction in thymus weight was not considered treatment-related because it was not dosage-dependent. Values for the brain and spleen weights were comparable among the four exposure groups for both male and female pups and did not differ significantly.

L. Histopathology - F1 Generation Female Rats and F2 Generation Pups (APPENDIX J)

L.1. F1 Generation Female Rats

Exposure-related histomorphologic changes were observed in the thyroid gland of F1 generation female rats. These changes were primarily hypertrophy and hyperplasia of the thyroid follicular epithelium.

In many of the affected thyroids there were increased numbers of small follicles (hyperplasia) and these follicles had enlarged (hypertrophied) follicular epithelial cells. In the thyroids with a moderate or marked hyperplasia/hypertrophy, there was a decrease or complete absence of visible colloid in the affected follicles. The incidence by degree of severity of the thyroid changes in the F1 generation females is presented below:

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	4/20	5/27	6/27	1/25
-mild	2/20	1/27	6/27	2/25
-moderate	0/20	0/27	1/27	10/25
-marked	0/20	0/27	0/27	11/25
Total	6/20	6/27	13/27	24/25**

** Significantly different from the carrier group value ($p \leq 0.01$).

The degree of the thyroid change ranged from minimal to marked and generally occurred in a exposure-related fashion. The incidence of hyperplasia/ hypertrophy was significantly increased ($p \leq 0.01$) in the 30.0 mg/kg/day target dosage group. An increased incidence and severity of the hyperplasia/

hypertrophy, albeit not significant, also occurred in the 3.0 mg/kg/day target dosage group and was judged to be exposure-related. The incidence in the 0.3 mg/kg/day target dosage group F1 generation female rats was considered comparable to the carrier group.

All other microscopic changes observed in the other organs and tissues specified for examination from the F1 generation female parental rats exposed to 30.0 mg/kg/day of ammonium perchlorate were considered to have occurred spontaneously in female rats used in reproductive studies and to be unrelated to exposure.

L.2. F2 Generation Pups

Exposure-related histomorphologic changes were observed in the thyroid gland of male and female F2 generation pups. These changes were primarily hypertrophy and hyperplasia of the thyroid follicular epithelium.

In many of the affected thyroids there were increased numbers of small follicles (hyperplasia) and these follicles had enlarged (hypertrophied) follicular epithelial cells. In the thyroids with a moderate or marked hyperplasia/hypertrophy, there was a decrease or complete absence of visible colloid in the affected follicles. The incidence by degree of severity of the thyroid changes in the F2 generation male and female pups is presented below:

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Male Pups - Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	1/20	0/27	10/28	1/25
-mild	0/20	2/27	6/28	1/25
-moderate	0/20	0/27	1/28	14/25
-marked	0/20	0/27	0/28	6/25
Total	1/20	2/27	17/28*	22/25**
Female Pups - Severity of hyperplasia/hypertrophy of the follicular epithelium				
-minimal	1/20	3/27	6/28	2/25
-mild	0/20	0/27	10/28	3/25
-moderate	0/20	0/27	2/28	15/25
-marked	0/20	0/27	0/28	5/25
Total	1/20	3/27	18/28*	25/25**

* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

The degree of the thyroid change ranged from minimal to marked and generally occurred in a exposure-related fashion. The incidence of hyperplasia/ hypertrophy was significantly increased ($p \leq 0.05$ and $p \leq 0.01$, respectively) in the 3.0 and 30.0 mg/kg/day target dosage groups. The incidence in the 0.3 mg/kg/day target dosage group was considered comparable to the carrier group. The only other finding in the thyroid gland of the male and female pups was an occasional ultimobranchial body/cyst which are congenital remnants that commonly are found in the thyroid gland of young rats; the incidence of this finding was not influenced by test substance exposure.

All other microscopic changes observed in the other organs and tissues specified for examination from the F2 generation male and female pups exposed to 30.0 mg/kg/day of ammonium perchlorate were considered to have occurred spontaneously in rats used in reproductive studies and to be unrelated to exposure.

M. Thyroid and Pituitary Hormone Analyses - F1 Generation Female Rats and F2 Generation Pups (APPENDIX K)

M.1. F1 Generation Female Rats

For the F1 generation adult female rats, a significant increase ($p \leq 0.05$) in thyroid stimulating hormone (TSH) levels and a concomitant decrease ($p > 0.05$) in serum thyroxine (T_4) occurred in the 30.0 mg/kg/day target dosage group, as compared to the carrier group value. This increase in serum TSH level was considered an effect of the test substance because: 1) the value was in an exposure-dependent manner; and 2) ammonium perchlorate causes an increase in serum TSH production.

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
T_3 (ng/dL)	61.5	51.2	53.4	56.8
T_4 (µg/dL)	2.22	2.03	2.27	2.13
TSH (ng/mL)	1.62	1.22	1.65	2.12*

* Significantly different from the carrier group value ($p \leq 0.05$).

M.2. F2 Generation Pups

Thyroid and pituitary hormone levels in the F2 generation pups were unaffected by parental exposure to targeted dosages of ammonium perchlorate as high as 30.0 mg/kg/day. Serum triiodothyronine (T_3) levels for the F2 generation male pups were significantly increased ($p \leq 0.05$) in the 3.0 mg/kg/day target dosage group and serum T_4 levels for the F2 generation female pups were significantly increased ($p \leq 0.01$) in the 3.0 mg/kg/day target dosage group. These increases were not considered an effect of the test substance because: 1) the increases

were not dosage-dependent; and 2) ammonium perchlorate would cause a reduction, rather than an increase in serum T_3 and T_4.

	0 (Carrier)	0.3 mg/kg/day	3.0 mg/kg/day	30.0 mg/kg/day
Male Pups				
T_3 (ng/dL)	106.3	108.0	119.5*	107.1
T_4 (µg/dL)	3.23	3.31	3.79	3.42
TSH (ng/mL)	0.82	0.88	0.95	0.96
Female Pups				
T_3 (ng/dL)	108.4	107.4	107.8	98.8
T_4 (µg/dL)	3.40	3.34	4.15**	3.83
TSH (ng/mL)	0.94	0.91	0.96	0.97

* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

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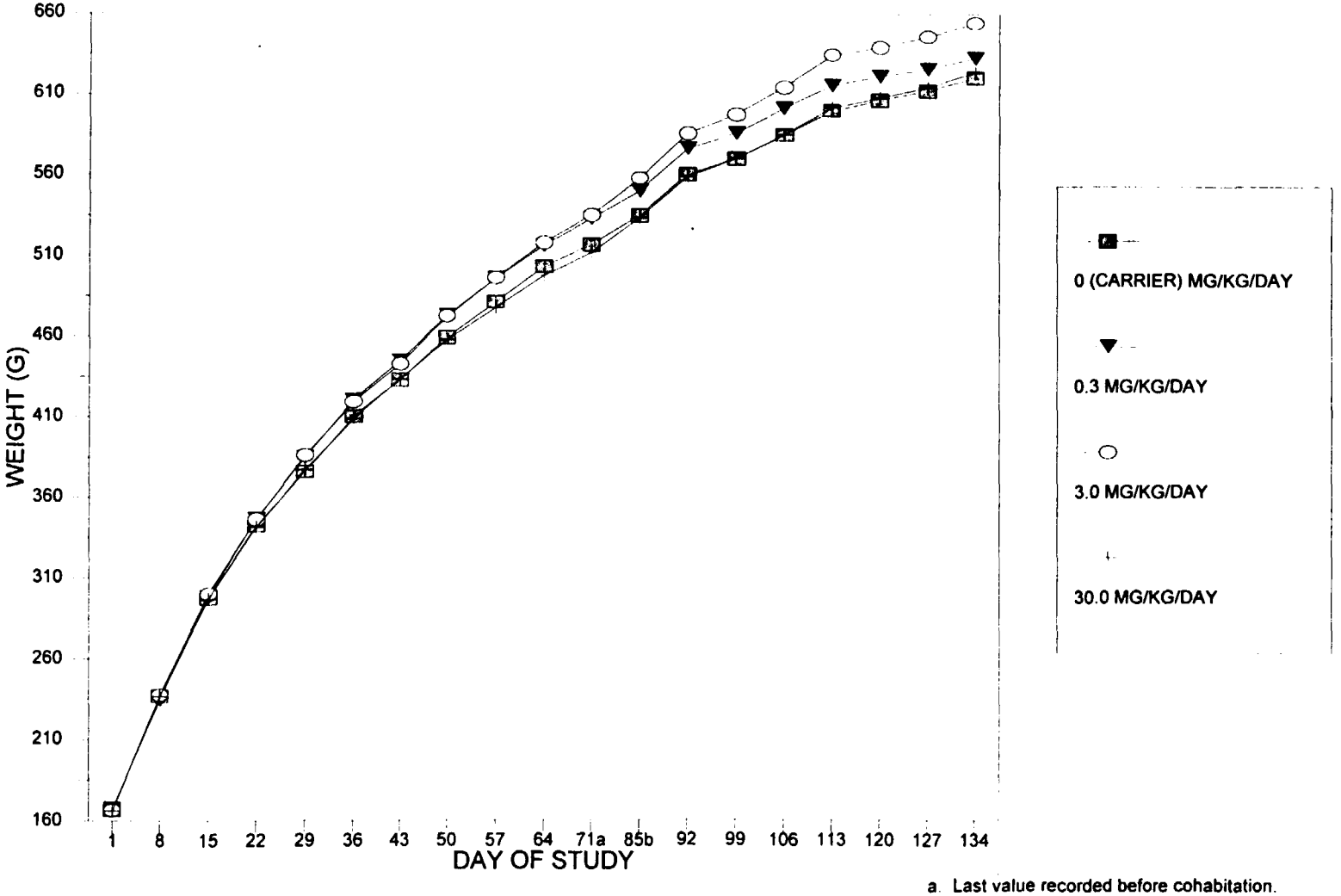
APPENDIX A

REPORT FIGURES

BODY WEIGHTS

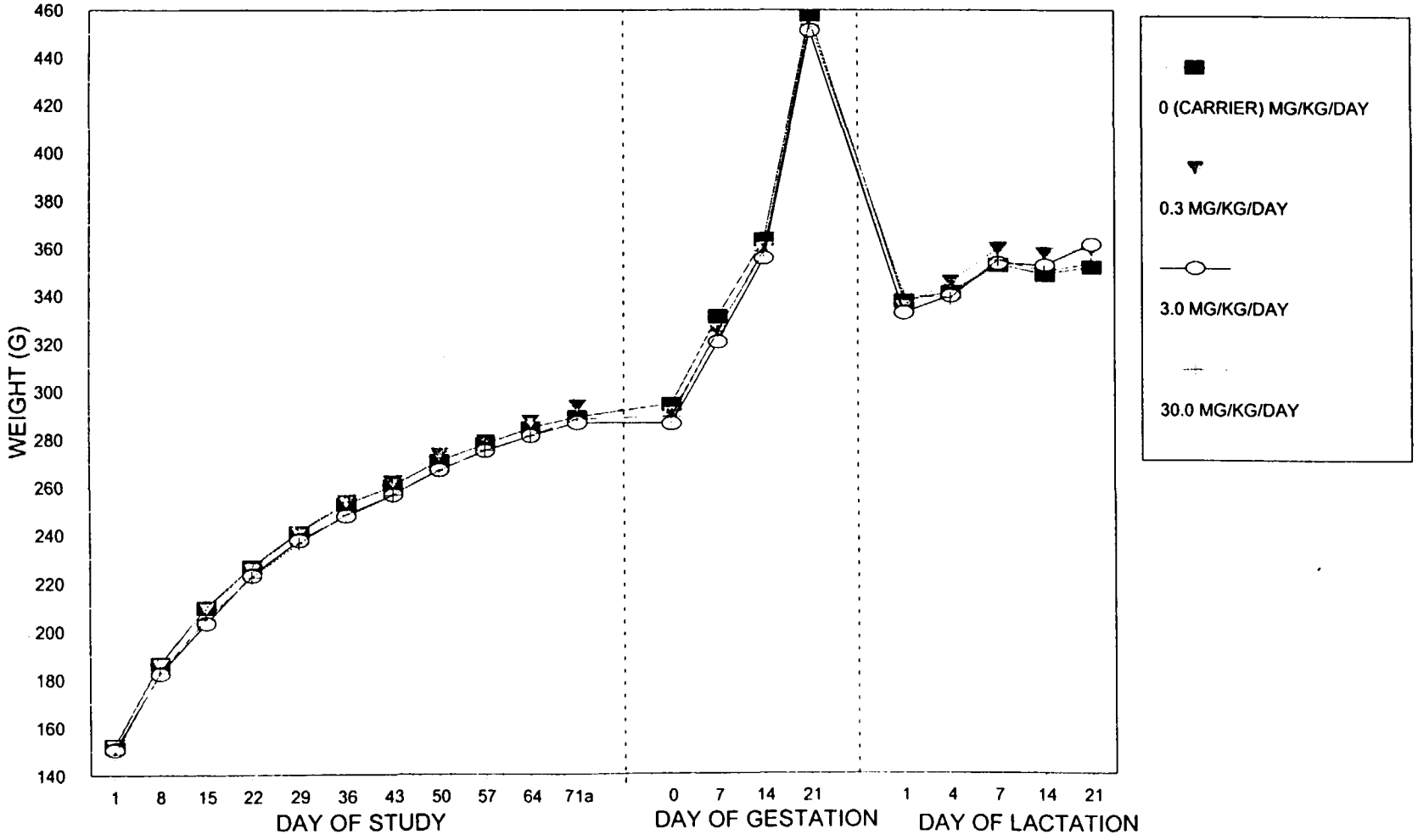
MALE RATS

Figure 1



a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

BODY WEIGHTS
FEMALE RATS
Figure 2

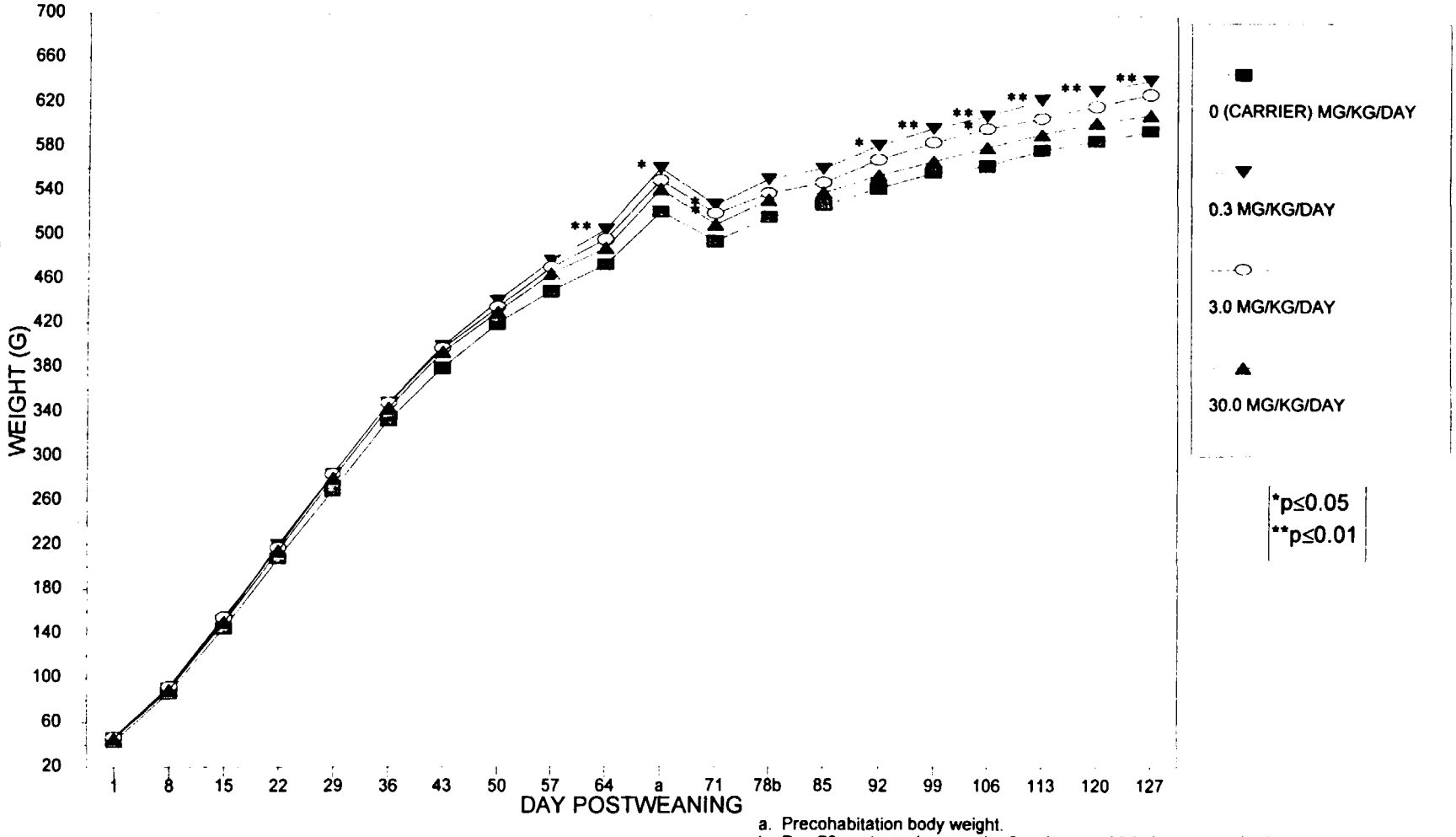


a. Last value recorded before cohabitation.

BODY WEIGHTS

F1 GENERATION MALE RATS

Figure 3

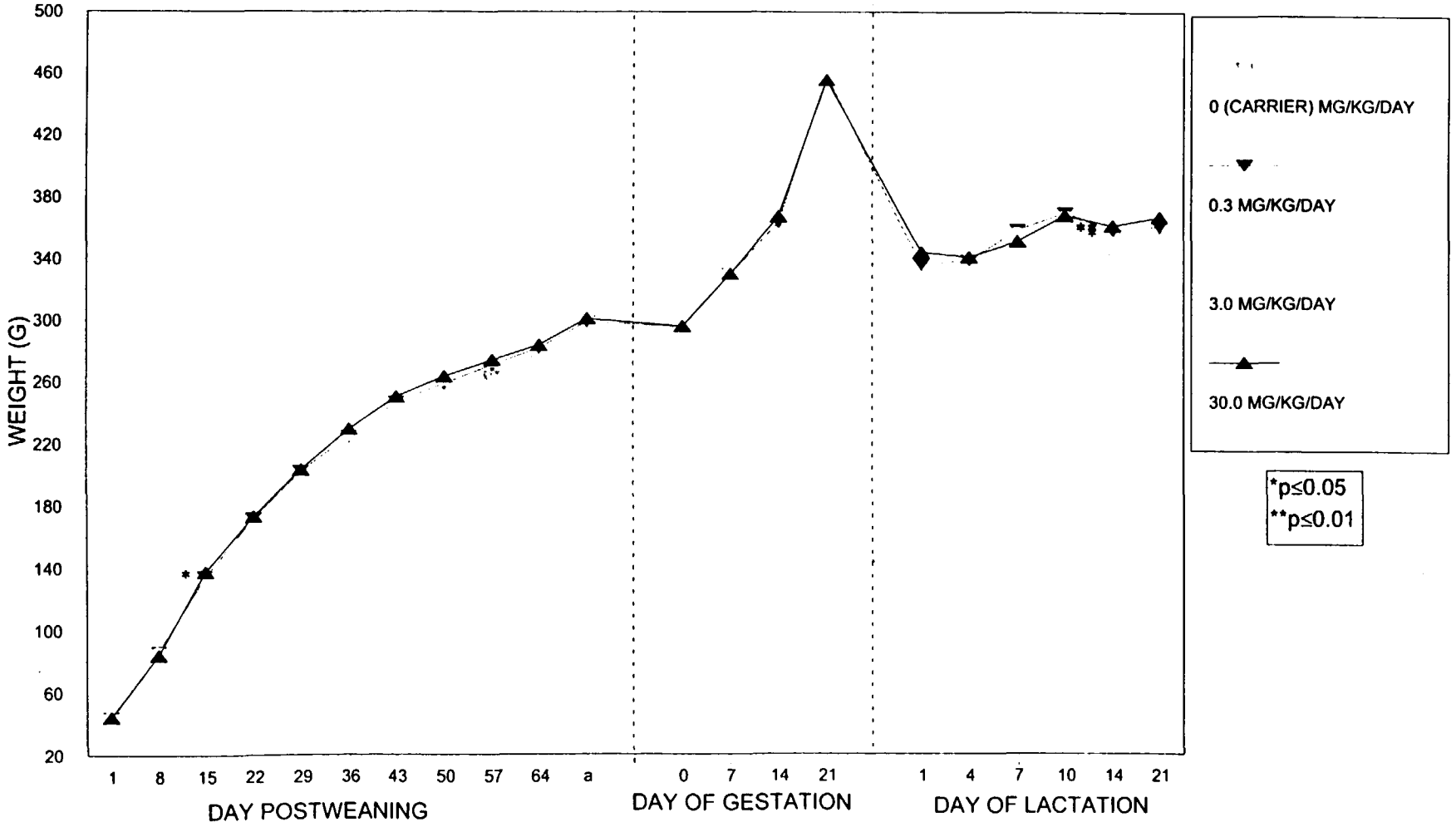


a. Precohabitation body weight.
b. Day 78 postweaning was the first day on which the youngest rats had a body weight value recorded after cohabitation.

BODY WEIGHTS

F1 GENERATION FEMALE RATS

Figure 4



a. Precohabitation body weight.

APPENDIX B

REPORT TABLES - P1 GENERATION MALE RATS

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B1 (PAGE 1): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (MG/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	0.0 ± 0.0	0.4 ± 0.0	4.4 ± 0.5	40.7 ± 3.5
DAYS 8 - 15	MEAN±S.D.	0.0 ± 0.0	0.2 ± 0.0	2.5 ± 0.3	26.1 ± 3.1
DAYS 15 - 22	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	3.1 ± 0.4	30.4 ± 3.0
DAYS 22 - 29	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	2.7 ± 0.4	27.6 ± 3.5
DAYS 29 - 36	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	3.1 ± 0.5	31.3 ± 4.3
DAYS 36 - 43	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	2.9 ± 0.5	27.9 ± 4.7 [29]a
DAYS 43 - 50	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	3.0 ± 0.5	30.1 ± 5.6 [29]a
DAYS 50 - 57	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	3.0 ± 0.5	27.8 ± 4.2 [27]a,b
DAYS 57 - 64	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	3.2 ± 0.6 [29]b	33.0 ± 5.1 [28]a,b
DAYS 64 - 71	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	2.8 ± 0.5 [29]b	27.5 ± 5.1 [28]a,b
DAYS 85 - 92	MEAN±S.D.	0.0 ± 0.0 [29]a	0.3 ± 0.1	3.4 ± 0.6	35.8 ± 8.2 [28]a,b
DAYS 92 - 99	MEAN±S.D.	0.0 ± 0.0 [29]a	0.3 ± 0.1	2.7 ± 0.4	28.2 ± 7.2 [28]a,b
DAYS 99 -106	MEAN±S.D.	0.0 ± 0.0 [28]a,b	0.3 ± 0.1	3.0 ± 0.5	29.7 ± 6.2 [29]a
DAYS 106 -113	MEAN±S.D.	0.0 ± 0.0 [29]a	0.2 ± 0.0	2.6 ± 0.4 [29]b	25.9 ± 8.9 [29]a
DAYS 113 -120	MEAN±S.D.	0.0 ± 0.0 [29]a	0.3 ± 0.0	3.1 ± 0.6	29.2 ± 8.6 [29]a
DAYS 120 -127	MEAN±S.D.	0.0 ± 0.0 [28]a,b	0.3 ± 0.0	3.0 ± 0.5	30.4 ± 8.5 [29]a
DAYS 127 -134	MEAN±S.D.	0.0 ± 0.0 [29]a	0.3 ± 0.0	3.3 ± 0.6	32.3 ± 6.7 [28]a,b

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B1 (PAGE 2): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	28a,b
WATER CONSUMPTION (MG/KG/DAY)					
DAYS 1 -134c	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	3.1 ± 0.4	30.8 ± 4.2

DAYS = DAYS OF STUDY
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.
c. The actual dosage was calculated by averaging the concentrations used during each interval then rounding to one decimal place.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B2 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
MAXIMUM POSSIBLE INCIDENCE	4037/ 30	4094/ 30	4095/ 30	3998/ 30
MORTALITY	1	0	0	1
MORIBUND SACRIFICED	0	0	0	1a
FOUND DEAD	1b	0	0	0
LESION c	290/ 12b	158/ 8	269/ 9	216/ 8
LOCALIZED ALOPECIA: TOTAL	506/ 10	346/ 10	220/ 7	188/ 6
NECK	232/ 6	64/ 3	82/ 5	95/ 3
BACK	26/ 1	24/ 1	0/ 0	40/ 3
HEAD	91/ 4b	15/ 3	7/ 1	22/ 2
LIMBS	217/ 4	290/ 5	67/ 2	46/ 1
UNDERSIDE	0/ 0	0/ 0	78/ 1	0/ 0
CHROMORHINORRHEA	8/ 3	25/ 10**	10/ 3	13/ 4
INCISORS: TOTAL	17/ 2	326/ 5	169/ 2	9/ 2
MISSING/BROKEN	17/ 2	151/ 3	57/ 2	9/ 2a
MISALIGNED	0/ 0	298/ 5	169/ 2	1/ 1a
CHROMODACRYORRHEA	0/ 0	239/ 4	114/ 2	1/ 1a
SWOLLEN SNOUT	0/ 0	11/ 2	0/ 0	1/ 1a
BROKEN PALATE	0/ 0	0/ 0	0/ 0	1/ 1a
VOCALIZATION	0/ 0	0/ 0	0/ 0	1/ 1a
DEHYDRATION	1/ 1	3/ 2	2/ 2	0/ 0
LENTICULAR OPACITY	0/ 0	0/ 0	67/ 1	0/ 0
HEAD TILT	0/ 0	0/ 0	22/ 1	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 3698 was moribund sacrificed on day 40 of study.
b. Rat 3626 was found dead on day 80 of study.
c. Located on the neck, back, head, left forepaw, right shoulder, right forelimb, left forelimb, lower midline, left upper lip, above left eye, below right ear, behind right ear and/or below right eye.
** Significantly different from the control group value ($p \leq 0.01$).

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B2 (PAGE 2): CLINICAL OBSERVATIONS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
MAXIMUM POSSIBLE INCIDENCE	4037/ 30	4094/ 30	4095/ 30	3998/ 30
MORTALITY	1	0	0	1
MORIBUND SACRIFICED	0	0	0	1a
FOUND DEAD	1b	0	0	0
EXOPHTHALMOS	0/ 0	72/ 1	0/ 0	0/ 0
NECK: MASS	12/ 1	0/ 0	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 3698 was moribund sacrificed on day 40 of study.
b. Rat 3626 was found dead on day 80 of study.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B3 (PAGE 1): BODY WEIGHTS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT (G)					
DAY 1	MEAN±S.D	166.4 ± 13.5	167.6 ± 8.9	166.2 ± 11.3	166.2 ± 8.1
DAY 8	MEAN±S.D	236.2 ± 13.9	234.2 ± 14.8	237.1 ± 13.7	236.2 ± 10.7
DAY 15	MEAN±S.D	296.5 ± 17.3	298.0 ± 18.5	299.9 ± 19.3	296.7 ± 14.5
DAY 22	MEAN±S.D	342.4 ± 21.6	346.7 ± 26.5	346.2 ± 25.0	341.5 ± 20.3
DAY 29	MEAN±S.D	375.4 ± 25.8	384.7 ± 30.7	385.8 ± 29.2	376.6 ± 22.1
DAY 36	MEAN±S.D	409.5 ± 31.1	420.2 ± 35.2	418.5 ± 32.5	408.2 ± 25.8
DAY 43	MEAN±S.D	432.6 ± 37.0	444.4 ± 37.1	442.4 ± 36.0	432.9 ± 28.6 [29]a
DAY 50	MEAN±S.D	459.0 ± 41.3	472.5 ± 42.4	471.8 ± 39.3	457.0 ± 31.6 [29]a
DAY 57	MEAN±S.D	480.8 ± 45.4	495.5 ± 45.7	495.5 ± 41.1	477.4 ± 36.3 [29]a
DAY 64	MEAN±S.D	502.8 ± 48.4	516.2 ± 49.7	517.7 ± 44.2	497.3 ± 37.5 [29]a
DAY 71b	MEAN±S.D	516.6 ± 50.0	532.7 ± 51.6	534.9 ± 44.8	511.3 ± 40.4 [29]a
DAY 85c	MEAN±S.D	534.8 ± 52.4 [29]a	550.2 ± 55.0	557.8 ± 48.0	533.6 ± 41.9 [29]a
DAY 92	MEAN±S.D	560.5 ± 56.1 [29]a	576.6 ± 54.9	585.9 ± 49.7	559.1 ± 47.3 [29]a
DAY 99	MEAN±S.D	570.3 ± 56.7 [29]a	585.8 ± 55.7	597.6 ± 49.1	570.2 ± 48.0 [29]a
DAY 106	MEAN±S.D	584.8 ± 59.0 [29]a	601.4 ± 58.3	614.6 ± 49.1	585.2 ± 50.6 [29]a

DAY = DAY OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Last value recorded before cohabitation.
c. First value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B3 (PAGE 2): BODY WEIGHTS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
BODY WEIGHT (G)					
DAY 113	MEAN±S.D	599.8 ± 59.1	615.5 ± 59.8	631.7 ± 51.8 [29]b	601.7 ± 51.6
DAY 120	MEAN±S.D	606.2 ± 60.1	621.1 ± 61.1	639.2 ± 51.8	607.5 ± 52.0
DAY 127	MEAN±S.D	612.1 ± 61.6	625.5 ± 62.5	645.7 ± 52.1	614.2 ± 54.6
DAY 134	MEAN±S.D	620.0 ± 62.2	632.7 ± 63.2	654.0 ± 55.2	623.6 ± 53.2
TERMINAL BODY WEIGHT	MEAN±S.D.	631.2 ± 64.2	644.6 ± 62.7	663.9 ± 53.0	636.1 ± 55.0

DAY = DAY OF STUDY
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes a value that was incorrectly recorded.

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B4 (PAGE 1): BODY WEIGHT CHANGES - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT CHANGE (G)					
DAYS 1 - 8	MEAN±S.D.	+69.9 ± 8.6	+66.6 ± 10.3	+70.9 ± 7.6	+70.0 ± 7.4
DAYS 8 - 15	MEAN±S.D.	+60.3 ± 6.9	+63.8 ± 9.5	+62.8 ± 7.9	+60.5 ± 6.2
DAYS 15 - 22	MEAN±S.D.	+45.9 ± 6.9	+48.7 ± 11.0	+46.3 ± 8.7	+44.8 ± 8.1
DAYS 22 - 29	MEAN±S.D.	+33.0 ± 7.2	+38.0 ± 6.6*	+39.6 ± 6.0**	+35.1 ± 8.0
DAYS 29 - 36	MEAN±S.D.	+34.1 ± 8.3	+35.5 ± 7.0	+32.8 ± 5.6	+31.6 ± 5.7
DAYS 36 - 43	MEAN±S.D.	+23.1 ± 7.2	+24.2 ± 8.2	+23.9 ± 11.7	+24.9 ± 5.0 [29]a
DAYS 43 - 50	MEAN±S.D.	+26.4 ± 6.7	+28.1 ± 10.6	+29.3 ± 13.4	+24.1 ± 6.3 [29]a
DAYS 50 - 57	MEAN±S.D.	+21.8 ± 5.4	+23.1 ± 7.8	+23.7 ± 5.5	+20.4 ± 8.4 [29]a
DAYS 57 - 64	MEAN±S.D.	+22.0 ± 6.3	+20.6 ± 8.3	+22.2 ± 6.0	+19.9 ± 7.7 [29]a
DAYS 64 - 71b	MEAN±S.D.	+13.8 ± 6.1	+16.5 ± 10.0	+17.1 ± 7.6	+13.9 ± 8.3 [29]a
DAYS 85c- 92	MEAN±S.D.	+25.7 ± 6.2 [29]a	+26.4 ± 8.9	+28.0 ± 5.2	+25.4 ± 9.5 [29]a
DAYS 92 - 99	MEAN±S.D.	+9.8 ± 7.1 [29]a	+9.2 ± 6.1	+11.7 ± 6.5	+11.1 ± 5.3 [29]a
DAYS 99 - 106	MEAN±S.D.	+14.6 ± 4.9 [29]a	+15.5 ± 4.9	+17.0 ± 6.8	+15.0 ± 6.9 [29]a
DAYS 106 -113	MEAN±S.D.	+14.9 ± 5.5 [29]a	+14.1 ± 7.9	+18.1 ± 5.9 [29]d	+16.5 ± 7.3 [29]a
DAYS 113 -120	MEAN±S.D.	+6.4 ± 6.2 [29]a	+5.6 ± 6.1	+6.6 ± 5.4 [29]d	+5.8 ± 4.7 [29]a

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Last value recorded before cohabitation.
c. First value recorded after cohabitation.
d. Excludes a value that was incorrectly recorded.
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B4 (PAGE 2): BODY WEIGHT CHANGES - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
BODY WEIGHT CHANGE (G)					
DAYS 120 - 127	MEAN±S.D.	+5.9 ± 5.6	+4.4 ± 8.7	+6.5 ± 5.4	+6.8 ± 7.0
DAYS 127 - 134	MEAN±S.D.	+7.9 ± 7.1	+7.2 ± 6.4	+8.3 ± 7.0	+9.4 ± 4.9
DAYS 1 - 134	MEAN±S.D.	+453.9 ± 60.2	+465.1 ± 58.1	+487.9 ± 50.8	+457.4 ± 50.3
DAY 1 - TERMINATION	MEAN±S.D.	+465.1 ± 62.3	+477.0 ± 57.7	+497.8 ± 48.4	+469.9 ± 52.1

DAYS = DAYS OF STUDY
a. Excludes values for rats that were found dead or moribund sacrificed.

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B5 (PAGE 1): ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/DAY)					
DAYS 1 - 8	MEAN±S.D.	37.5 ± 4.8	35.8 ± 3.4	38.4 ± 5.3	36.2 ± 2.9
DAYS 8 - 15	MEAN±S.D.	39.7 ± 5.7	38.6 ± 4.8	39.4 ± 6.4	37.3 ± 4.2
DAYS 15 - 22	MEAN±S.D.	42.9 ± 6.7	42.3 ± 5.8	44.2 ± 7.0	40.2 ± 3.6
DAYS 22 - 29	MEAN±S.D.	41.8 ± 7.2	41.4 ± 5.4	43.0 ± 8.5	38.8 ± 4.3
DAYS 29 - 36	MEAN±S.D.	42.8 ± 7.1	42.5 ± 5.5	44.1 ± 7.4	39.6 ± 4.9
DAYS 36 - 43	MEAN±S.D.	41.4 ± 7.1	39.5 ± 6.6	41.5 ± 8.0	36.6 ± 5.3* [29]a
DAYS 43 - 50	MEAN±S.D.	42.9 ± 7.2	43.1 ± 7.4	45.0 ± 8.0	40.0 ± 6.9 [29]a
DAYS 50 - 57	MEAN±S.D.	43.0 ± 7.6	42.4 ± 7.4	43.9 ± 8.0	37.9 ± 5.2* [27]a,b
DAYS 57 - 64	MEAN±S.D.	44.6 ± 8.5	42.9 ± 7.8	45.7 ± 8.5 [29]b	39.4 ± 5.3* [28]a,b
DAYS 64 - 71c	MEAN±S.D.	42.2 ± 6.7	38.8 ± 6.5	42.3 ± 6.8 [29]b	36.1 ± 5.4** [28]a,b
DAYS 85d- 92	MEAN±S.D.	45.5 ± 8.8 [29]a	42.3 ± 6.5	47.0 ± 7.9	41.4 ± 9.3 [28]a,b
DAYS 92 - 99	MEAN±S.D.	43.0 ± 7.7 [29]a	38.6 ± 5.5*	42.2 ± 7.2	37.8 ± 8.7* [28]a,b
DAYS 99 -106	MEAN±S.D.	43.2 ± 7.0 [28]a,b	39.7 ± 5.6	43.0 ± 7.2	39.9 ± 6.9 [29]a
DAYS 106 -113	MEAN±S.D.	38.7 ± 5.8 [29]a	37.2 ± 6.0	39.7 ± 6.8 [29]b	37.3 ± 11.2 [29]a
DAYS 113 -120	MEAN±S.D.	39.2 ± 6.8 [29]a	35.4 ± 5.1	38.3 ± 8.0	34.8 ± 8.8* [29]a

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.
c. Last value recorded before cohabitation.
d. First value recorded after cohabitation.
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B5 (PAGE 2): ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
WATER CONSUMPTION (G/DAY)					
DAYS 120 -127	MEAN±S.D.	39.1 ± 6.6 [28]b	36.1 ± 4.8	39.9 ± 7.2	36.4 ± 8.8
DAYS 127 -134	MEAN±S.D.	43.2 ± 9.7	37.7 ± 5.6	42.8 ± 9.0	37.8 ± 7.2 [28]b
DAYS 1 -134	MEAN±S.D.	41.8 ± 6.3	39.7 ± 4.9	42.4 ± 6.4	37.6 ± 4.4** [28]b

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B6 (PAGE 1): RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	187.0 ± 25.8	178.8 ± 18.0	190.4 ± 23.2	180.0 ± 15.4
DAYS 8 - 15	MEAN±S.D.	149.0 ± 20.6	145.3 ± 18.2	146.2 ± 19.4	140.2 ± 16.4
DAYS 15 - 22	MEAN±S.D.	134.4 ± 20.1	131.2 ± 16.6	136.6 ± 16.9	126.4 ± 12.3
DAYS 22 - 29	MEAN±S.D.	116.6 ± 19.1	113.4 ± 14.0	117.0 ± 19.7	108.6 ± 13.9
DAYS 29 - 36	MEAN±S.D.	109.1 ± 17.8	106.0 ± 13.5	109.6 ± 16.8	101.1 ± 14.0
DAYS 36 - 43	MEAN±S.D.	98.5 ± 16.2	91.7 ± 15.6	96.3 ± 16.1	87.6 ± 14.7* [29]a
DAYS 43 - 50	MEAN±S.D.	96.6 ± 15.9	94.5 ± 16.9	98.7 ± 17.5	90.4 ± 16.8 [29]a
DAYS 50 - 57	MEAN±S.D.	92.0 ± 16.6	87.9 ± 15.4	91.1 ± 16.3	81.1 ± 12.3* [27]a,b
DAYS 57 - 64	MEAN±S.D.	91.0 ± 17.0	85.2 ± 15.2	90.1 ± 17.4 [29]b	80.8 ± 12.6 [28]a,b
DAYS 64 - 71c	MEAN±S.D.	83.3 ± 14.4	74.2 ± 11.7*	81.0 ± 14.0 [29]b	72.0 ± 13.4** [28]a,b
DAYS 85d- 92	MEAN±S.D.	83.6 ± 16.6 [29]a	75.4 ± 11.6	82.8 ± 15.4	76.0 ± 17.3 [28]a,b
DAYS 92 - 99	MEAN±S.D.	76.6 ± 15.3 [29]a	66.7 ± 9.6*	71.5 ± 11.8	67.3 ± 17.1* [28]a,b
DAYS 99 -106	MEAN±S.D.	75.0 ± 12.7 [28]a,b	67.2 ± 9.9	71.3 ± 12.4	69.6 ± 14.5 [29]a
DAYS 106 -113	MEAN±S.D.	65.8 ± 10.7 [29]a	61.2 ± 9.0	63.9 ± 10.8 [29]b	63.5 ± 21.8 [29]a
DAYS 113 -120	MEAN±S.D.	65.6 ± 12.8 [29]a	57.4 ± 7.3*	60.4 ± 12.7	58.3 ± 17.1* [29]a

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.
c. Last value recorded before cohabitation.
d. First value recorded after cohabitation.
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B6 (PAGE 2): RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
WATER CONSUMPTION (G/KG/DAY)					
DAYS 120 -127	MEAN±S.D.	64.4 ± 11.4 [28]b	58.2 ± 7.5	62.3 ± 11.1	60.1 ± 16.7
DAYS 127 -134	MEAN±S.D.	70.5 ± 15.9	60.2 ± 9.0*	66.0 ± 13.4	61.3 ± 12.7* [28]b
DAYS 1 -134	MEAN±S.D.	89.5 ± 13.9	82.9 ± 10.0*	87.4 ± 12.5	80.5 ± 10.9** [28]b

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B7 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
FEED CONSUMPTION (G/DAY)					
DAYS 1 - 8	MEAN±S.D.	25.7 ± 2.1	25.4 ± 2.1	26.2 ± 1.9	25.6 ± 1.5
DAYS 8 - 15	MEAN±S.D.	28.6 ± 2.3	28.9 ± 2.0	29.6 ± 2.2	28.8 ± 2.1
DAYS 15 - 22	MEAN±S.D.	29.4 ± 2.8	30.0 ± 2.7	30.7 ± 2.6	29.6 ± 2.2 [29]a
DAYS 22 - 29	MEAN±S.D.	29.1 ± 3.2	30.1 ± 2.6	30.7 ± 2.5	29.3 ± 2.1
DAYS 29 - 36	MEAN±S.D.	29.1 ± 3.0	30.3 ± 2.6	30.6 ± 2.4*	29.0 ± 2.2
DAYS 36 - 43	MEAN±S.D.	29.6 ± 3.7 [28]a	30.4 ± 2.8	30.6 ± 2.4 [26]a	29.8 ± 2.5 [29]b
DAYS 43 - 50	MEAN±S.D.	29.3 ± 3.3 [29]a	30.3 ± 3.1 [29]a	31.1 ± 2.4* [27]a	29.2 ± 2.0 [28]a,b
DAYS 50 - 57	MEAN±S.D.	29.2 ± 3.3 [28]a	30.0 ± 2.9 [28]a	30.7 ± 2.3 [25]a	28.7 ± 2.0 [24]a,b
DAYS 57 - 64	MEAN±S.D.	29.8 ± 3.4 [26]a	30.9 ± 3.2 [27]a	31.4 ± 2.6 [26]a	29.6 ± 2.0 [24]a,b
DAYS 64 - 71c	MEAN±S.D.	29.2 ± 3.3 [24]a	29.8 ± 3.2 [26]a	30.4 ± 2.2 [22]a	29.0 ± 2.3 [25]a,b
DAYS 85d- 92	MEAN±S.D.	29.8 ± 2.7 [25]a,b	30.0 ± 3.1 [26]a	31.2 ± 2.3 [26]a	29.2 ± 2.8 [27]a,b
DAYS 92 - 99	MEAN±S.D.	29.8 ± 2.9 [27]a,b	30.4 ± 2.5 [28]a	31.4 ± 2.2 [28]a	29.8 ± 2.4 [28]a,b
DAYS 99 - 106	MEAN±S.D.	29.6 ± 3.0 [27]a,b	30.0 ± 2.7 [29]a	31.4 ± 2.2*	29.5 ± 2.5 [29]b
DAYS 106 - 113	MEAN±S.D.	29.1 ± 2.8 [28]a,b	29.2 ± 3.0	30.7 ± 2.0*	28.8 ± 2.4 [28]a,b

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Excludes values for rats that were found dead or moribund sacrificed.
c. Last value recorded before cohabitation.
d. First value recorded after cohabitation.
* Significantly different from the control group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B7 (PAGE 2): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
FEED CONSUMPTION (G/DAY)					
DAYS 113 - 120	MEAN±S.D.	29.0 ± 2.7 [24]b	28.9 ± 3.2 [28]b	30.3 ± 2.1 [28]b	28.8 ± 1.8 [25]b
DAYS 120 - 127	MEAN±S.D.	28.7 ± 2.8	28.3 ± 3.3	30.1 ± 2.2	28.7 ± 2.1
DAYS 127 - 134	MEAN±S.D.	29.9 ± 2.4	29.7 ± 2.8 [29]b	31.2 ± 2.2* [29]b	29.7 ± 2.0
DAYS 1 - 134	MEAN±S.D.	29.1 ± 2.8	29.7 ± 2.4 [29]b	30.4 ± 1.9 [29]b	29.0 ± 1.8

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.
* Significantly different from the control group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B8 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP			1	2	3	4
TARGET DOSAGE (MG/KG/DAY)			0 (CARRIER)	0.3	3.0	30.0
RATS TESTED		N	30	30	30	30
FEED CONSUMPTION (G/KG/DAY)						
DAYS	1 - 8	MEAN±S.D.	127.3 ± 10.4	126.3 ± 8.0	130.2 ± 6.8	127.2 ± 5.5
DAYS	8 - 15	MEAN±S.D.	107.4 ± 6.3	108.6 ± 4.4	110.2 ± 5.3	107.9 ± 5.5
DAYS	15 - 22	MEAN±S.D.	92.1 ± 5.9	93.0 ± 4.8	94.9 ± 4.9	92.5 ± 4.6 [29]a
DAYS	22 - 29	MEAN±S.D.	81.1 ± 5.8	82.4 ± 4.1	84.1 ± 5.3	81.6 ± 4.1
DAYS	29 - 36	MEAN±S.D.	74.1 ± 4.5	75.3 ± 3.4	76.1 ± 4.9	73.9 ± 4.0
DAYS	36 - 43	MEAN±S.D.	70.5 ± 4.5 [28]a	70.5 ± 4.2	70.8 ± 3.4 [26]a	71.0 ± 4.4 [29]b
DAYS	43 - 50	MEAN±S.D.	65.9 ± 3.5 [29]a	66.2 ± 3.8 [29]a	67.6 ± 3.4 [27]a	65.8 ± 3.9 [28]a,b
DAYS	50 - 57	MEAN±S.D.	62.2 ± 4.0 [28]a	62.3 ± 4.4 [28]a	62.8 ± 3.0 [25]a	62.0 ± 3.5 [24]a,b
DAYS	57 - 64	MEAN±S.D.	60.7 ± 3.6 [26]a	60.7 ± 4.0 [27]a	61.9 ± 3.2 [26]a	60.2 ± 3.0 [24]a,b
DAYS	64 - 71c	MEAN±S.D.	57.2 ± 2.4 [24]a	57.4 ± 4.2 [26]a	58.0 ± 3.5 [22]a	57.7 ± 4.4 [25]a,b
DAYS	85d- 92	MEAN±S.D.	53.8 ± 2.4 [25]a	53.7 ± 4.0 [26]a	54.7 ± 2.8 [26]a	53.8 ± 3.4 [27]a,b
DAYS	92 - 99	MEAN±S.D.	52.7 ± 2.8 [27]a,b	52.5 ± 2.8 [28]a	53.2 ± 4.3 [28]a	53.0 ± 3.2 [28]a,b
DAYS	99 - 106	MEAN±S.D.	51.2 ± 2.7 [27]a,b	50.7 ± 2.8 [29]a	51.9 ± 3.3	51.2 ± 3.2 [29]b
DAYS	106 - 113	MEAN±S.D.	49.2 ± 2.5 [28]a,b	48.1 ± 3.3	49.3 ± 3.8	48.7 ± 2.9 [28]a,b

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Excludes values for rats that were found dead or moribund sacrificed.
c. Last value recorded before cohabitation.
d. First value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B8 (PAGE 2): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
FEED CONSUMPTION (G/KG/DAY)					
DAYS 113 - 120	MEAN±S.D.	47.4 ± 2.8 [24]b	46.6 ± 3.5 [28]b	47.9 ± 4.4 [28]b	47.2 ± 2.8 [25]b
DAYS 120 - 127	MEAN±S.D.	47.2 ± 3.2	45.4 ± 3.5	47.0 ± 3.2	47.1 ± 2.6
DAYS 127 - 134	MEAN±S.D.	48.7 ± 2.8	47.4 ± 3.4 [29]b	48.4 ± 3.2 [29]b	48.2 ± 3.7
DAYS 1 - 134	MEAN±S.D.	62.2 ± 2.7	61.8 ± 2.6 [29]b	62.8 ± 3.4 [29]b	62.1 ± 2.6

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values that were associated with spillage.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B9 (PAGE 1): MATING AND FERTILITY - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS IN COHABITATION	N	30	30	30	29a
DAYS IN COHABITATION b	MEAN±S.D	3.6 ± 3.2	4.5 ± 4.5	3.1 ± 2.4	3.2 ± 2.8 [28]
RATS THAT MATED c	N(%)	30(100.0)	26(86.7)**	29(96.7)	29(100.0)
FERTILITY INDEX d,e	N/N (%)	28/30 (93.3)	22/26 (84.6)	26/29 (89.6)	24/29 (82.8)
RATS WITH CONFIRMED MATING DATES f	N	30	26	29	28
RATS MATING g DAYS 1-14	N(%)	30(100.0)	26(100.0)	29(100.0)	28(100.0)
RATS PREGNANT/RATS IN COHABITATION f	N/N (%)	28/30 (93.3)	22/30 (73.3)	26/30 (86.7)	24/29 (82.8)

a. Excludes rat 3698, which was moribund sacrificed on day 40 of study.
b. Restricted to rats with a confirmed mating date and rats that did not mate.
c. Includes only one mating for each male rat.
d. Number of pregnancies/number of rats that mated.
e. Includes only one pregnancy for each rat that impregnated more than one female rat.
f. Includes only one confirmed mating for each male rat.
g. Restricted to rats with a confirmed mating date.
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B10 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED a	N	30	30	30	30
FOUND DEAD	N	1b	0	0	0
MORIBUND SACRIFICED	N	0	0	0	1c
INCLUDED IN ANALYSES	N	30	30	30	29d
APPEARED NORMAL	N	29	29	29	28c
SPLEEN:					
LARGE	N	0	0	0	1
TESTES:					
SMALL	N	0	0	1	0
EPIDIDYMIDES:					
SMALL	N	0	0	1	0
CAUDA EPIDIDYMIS:					
LEFT, TAN MASS	N	0	1	0	0
EXTERNAL OBSERVATIONS:					
INCISORS, MISALIGNED	N	1b	0	0	0

a. Refer to the individual clinical observations table (Table B16) for external observations confirmed at necropsy.
b. Rat 3626 was found dead on day 80 of study.
c. Rat 3698 was moribund sacrificed on day 40 of study.
d. Rat 3693 had no recorded necropsy observations.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B11 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
TERMINAL BODY WEIGHT	MEAN±S.D.	631.2 ± 64.2	644.6 ± 62.7	663.9 ± 53.0	636.1 ± 55.0
EPIDIDYMIS LEFT	MEAN±S.D.	0.8130 ±0.0670	0.8159 ±0.0715 [29]b	0.8166 ±0.0480 [29]b	0.8085 ±0.0680
CAUDA EPIDIDYMIS LEFT	MEAN±S.D.	0.3826 ±0.0415	0.3872 ±0.0378 [29]b	0.3822 ±0.0350 [29]b	0.3740 ±0.0396
TESTIS LEFT	MEAN±S.D.	1.8940 ±0.1451	1.8899 ±0.1990	1.9180 ±0.1092 [29]b	1.8835 ±0.1519
L. TESTIS MINUS TUNICA ALBUGINEA	MEAN±S.D.	1.7104 ±0.1708	1.6990 ±0.1957	1.7043 ±0.2341	1.6759 ±0.1801
SEMINAL VESICLES WITH FLUID	MEAN±S.D.	1.7776 ±0.3503	1.6894 ±0.3024	1.7379 ±0.2344 [29]b	1.8011 ±0.3228 [28]b
SEMINAL VESICLES WITHOUT FLUID	MEAN±S.D.	0.9888 ±0.1991	0.9501 ±0.1551	0.9593 ±0.1370	1.0102 ±0.1640
EPIDIDYMIS RIGHT	MEAN±S.D.	0.8165 ±0.0688	0.8291 ±0.0715	0.8188 ±0.0568 [29]b	0.8234 ±0.0552
TESTIS RIGHT	MEAN±S.D.	1.9056 ±0.1673	1.9283 ±0.1441 [29]b	1.9193 ±0.1155 [29]b	1.8953 ±0.1330
PROSTATE	MEAN±S.D.	0.7559 ±0.1535	0.7081 ±0.1740	0.7500 ±0.1541	0.7054 ±0.1518
PITUITARY	MEAN±S.D.	0.014 ± 0.004	0.015 ± 0.004	0.014 ± 0.003	0.014 ± 0.004
BRAIN	MEAN±S.D.	2.36 ± 0.13	2.40 ± 0.14	2.37 ± 0.11	2.35 ± 0.10

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B11 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
LIVER	MEAN±S.D.	25.40 ± 3.54	26.62 ± 4.84	26.80 ± 3.34	25.08 ± 3.47
KIDNEY PAIRED	MEAN±S.D.	5.26 ± 0.69	5.46 ± 0.77	5.37 ± 0.45	5.32 ± 0.56
ADRENAL PAIRED	MEAN±S.D.	0.065 ± 0.013	0.062 ± 0.014	0.062 ± 0.012	0.059 ± 0.013
SPLEEN	MEAN±S.D.	1.05 ± 0.11	1.15 ± 0.17*	1.11 ± 0.12	1.06 ± 0.16 [28]b
THYROID	MEAN±S.D.	0.039 ± 0.004	0.041 ± 0.006 [29]c	0.043 ± 0.005* [29]b	0.051 ± 0.007**
HEART	MEAN±S.D.	1.93 ± 0.21	1.96 ± 0.24	1.93 ± 0.20	1.88 ± 0.23

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).
c. Excludes value for rat 3652, value was not recorded.
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B12 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
TERMINAL BODY WEIGHT	MEAN±S.D.	631.2 ± 64.2	644.6 ± 62.7	663.9 ± 53.0	636.1 ± 55.0
EPIDIDYMIS LEFT	MEAN±S.D.	0.129 ± 0.012	0.126 ± 0.014 [29]b	0.123 ± 0.013 [29]b	0.127 ± 0.012
CAUDA EPIDIDYMIS LEFT	MEAN±S.D.	0.061 ± 0.008	0.059 ± 0.007 [29]b	0.057 ± 0.007 [29]b	0.058 ± 0.006
TESTIS LEFT	MEAN±S.D.	0.301 ± 0.028	0.294 ± 0.035	0.290 ± 0.026 [29]b	0.298 ± 0.030
L. TESTIS MINUS TUNICA ALBUGINEA	MEAN±S.D.	0.272 ± 0.030	0.264 ± 0.032	0.258 ± 0.040	0.265 ± 0.032
SEMINAL VESICLES WITH FLUID	MEAN±S.D.	0.283 ± 0.061	0.263 ± 0.049	0.262 ± 0.044 [29]b	0.285 ± 0.054 [28]b
SEMINAL VESICLES WITHOUT FLUID	MEAN±S.D.	0.156 ± 0.032	0.147 ± 0.024	0.144 ± 0.024	0.160 ± 0.030
EPIDIDYMIS RIGHT	MEAN±S.D.	0.130 ± 0.014	0.129 ± 0.016	0.123 ± 0.013 [29]b	0.131 ± 0.013
TESTIS RIGHT	MEAN±S.D.	0.303 ± 0.033	0.300 ± 0.031 [29]b	0.291 ± 0.026 [29]b	0.298 ± 0.026
PROSTATE	MEAN±S.D.	0.120 ± 0.027	0.111 ± 0.033	0.114 ± 0.027	0.111 ± 0.027
PITUITARY c	MEAN±S.D.	2.196 ± 0.599	2.326 ± 0.637	2.155 ± 0.484	2.240 ± 0.611
BRAIN	MEAN±S.D.	0.375 ± 0.040	0.375 ± 0.034	0.359 ± 0.030	0.372 ± 0.031

ALL WEIGHTS WERE RECORDED IN GRAMS (G). REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).
c. Value was multiplied by 1000.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B12 (PAGE 2): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
LIVER	MEAN±S.D.	4.024 ± 0.381	4.129 ± 0.627	4.038 ± 0.410	3.937 ± 0.376
KIDNEY PAIRED	MEAN±S.D.	0.837 ± 0.103	0.850 ± 0.109	0.811 ± 0.053	0.837 ± 0.076
ADRENAL PAIRED	MEAN±S.D.	0.010 ± 0.000	0.009 ± 0.003	0.010 ± 0.002	0.009 ± 0.003
SPLEEN	MEAN±S.D.	0.168 ± 0.018	0.179 ± 0.028	0.169 ± 0.023	0.169 ± 0.030 [28]b
THYROID c	MEAN±S.D.	6.249 ± 0.735	6.404 ± 0.956 [29]d	6.431 ± 0.667 [29]b	8.088 ± 1.325**
HEART	MEAN±S.D.	0.308 ± 0.038	0.304 ± 0.029	0.292 ± 0.030	0.296 ± 0.035

ALL WEIGHTS WERE RECORDED IN GRAMS (G). REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rats that were found dead or moribund sacrificed.

b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).

c. Value was multiplied by 1000.

d. Excludes value for rat 3652, value was not recorded.

** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B13 (PAGE 1): RATIOS (%) OF ORGAN WEIGHTS TO BRAIN WEIGHTS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
BRAIN WEIGHT	MEAN±S.D.	2.36 ± 0.13	2.40 ± 0.14	2.37 ± 0.11	2.35 ± 0.10
EPIDIDYMIS LEFT	MEAN±S.D.	34.60 ± 3.16	34.12 ± 3.38 [29]b	34.47 ± 2.29 [29]b	34.38 ± 3.11
CAUDA EPIDIDYMIS LEFT	MEAN±S.D.	16.26 ± 1.77	16.18 ± 1.64 [29]b	16.14 ± 1.59 [29]b	15.89 ± 1.68
TESTIS LEFT	MEAN±S.D.	80.53 ± 6.02	78.97 ± 9.00	81.04 ± 6.30 [29]b	80.10 ± 7.19
L. TESTIS MINUS TUNICA ALBUGINEA	MEAN±S.D.	72.72 ± 7.35	71.04 ± 9.15	71.99 ± 10.53	71.30 ± 8.36
SEMINAL VESICLES WITH FLUID	MEAN±S.D.	75.36 ± 13.63	70.86 ± 14.72	73.45 ± 10.52 [29]b	76.63 ± 13.69 [28]b
SEMINAL VESICLES WITHOUT FLUID	MEAN±S.D.	41.91 ± 7.81	39.78 ± 7.18	40.50 ± 6.08	42.96 ± 7.07
EPIDIDYMIS RIGHT	MEAN±S.D.	34.71 ± 2.80	34.64 ± 3.36	34.55 ± 2.48 [29]b	35.00 ± 2.36
TESTIS RIGHT	MEAN±S.D.	81.01 ± 6.82	80.64 ± 6.84 [29]b	81.07 ± 6.19 [29]b	80.56 ± 5.84
PROSTATE	MEAN±S.D.	32.21 ± 6.92	29.55 ± 7.33	31.68 ± 6.75	30.04 ± 6.77
PITUITARY	MEAN±S.D.	0.59 ± 0.15	0.62 ± 0.18	0.60 ± 0.14	0.60 ± 0.16
LIVER	MEAN±S.D.	1081.12 ±156.50	1114.75 ±226.85	1132.30 ±154.36	1065.76 ±147.78

ALL WEIGHTS WERE RECORDED IN GRAMS (G). REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B13 (PAGE 2): RATIOS (%) OF ORGAN WEIGHTS TO BRAIN WEIGHTS - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	29a	30	30	29a
KIDNEY PAIRED	MEAN±S.D.	223.75 ± 28.71	228.01 ± 33.98	226.90 ± 21.06	225.95 ± 24.58
ADRENAL PAIRED	MEAN±S.D.	2.75 ± 0.53	2.59 ± 0.58	2.63 ± 0.53	2.52 ± 0.54
SPLEEN	MEAN±S.D.	44.70 ± 3.95	48.17 ± 8.12	47.09 ± 5.47	45.36 ± 7.26 [28]b
THYROID	MEAN±S.D.	1.67 ± 0.19	1.72 ± 0.29 [29]c	1.81 ± 0.22 [29]b	2.17 ± 0.30**
HEART	MEAN±S.D.	82.13 ± 8.11	81.97 ± 11.04	81.62 ± 8.92	80.00 ± 10.47

ALL WEIGHTS WERE RECORDED IN GRAMS (G). REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).
c. Excludes value for rat 3652, value was not recorded.
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B14 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED	N	29a	30	30	29a
INCLUDED IN ANALYSES	N	29	29b	29c	29
NUMBER MOTILE	MEAN±S.D.	300.6±113.9	300.3±126.6	284.2±111.2	318.9±144.8
MOTILE PERCENT	MEAN±S.D.	74.5±7.4	76.7±7.1	73.6±8.5	74.6±8.8
STATIC COUNT (NONMOTILE)	MEAN±S.D.	99.0±39.9	89.1±38.7	98.5±37.2	99.0±34.8
TOTAL COUNT	MEAN±S.D.	399.6±138.8	389.4±152.7	382.7±128.1	417.9±153.4
SPERM COUNT	MEAN±S.D.	110.3±44.0	115.0±41.6	102.2±38.2	116.1±39.0
SPERM CONCENTRATION	MEAN±S.D.	6.4±2.5	6.6±2.4	5.9±2.2	6.7±2.2
SPERM DENSITY	MEAN±S.D.	823.2±284.6	855.5±299.0	770.7±260.8	892.1±264.0
SPERMATID COUNT	MEAN±S.D.	33.8±11.0	32.6±11.0	35.1±14.2	32.6±9.7
SPERMATID CONCENTRATION	MEAN±S.D.	2.0±0.6	1.9±0.6	2.0±0.8	1.9±0.6
SPERMATID DENSITY	MEAN±S.D.	115.5±36.7	108.7±34.0	115.7±43.4	112.7±32.4

a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rat 3639, which had a tan mass on the left cauda epididymis.
c. Excludes values for rat 3671, which had a small left epididymis.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B15 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - SUMMARY - P1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED	N	29a	30	30	29a
INCLUDED IN ANALYSES	N	29	29b	28c,d	29
NORMAL	MEAN±S.D.	194.6 ± 3.0	193.6 ± 4.6	194.8 ± 2.6	194.4 ± 3.4
PERCENT ABNORMAL	MEAN±S.D.	2.7 ± 1.5	3.2 ± 2.3	2.6 ± 1.3	2.8 ± 1.7
NO HOOK	MEAN±S.D.	0.2 ± 0.4	0.1 ± 0.3	0.2 ± 0.4	0.1 ± 0.4
EXCESSIVE HOOK	MEAN±S.D.	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.2
AMORPHOUS	MEAN±S.D.	0.1 ± 0.3	0.0 ± 0.2	0.0 ± 0.0	0.0 ± 0.0
PIN HEAD	MEAN±S.D.	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
DETACHED HEAD	MEAN±S.D.	2.8 ± 2.0	3.7 ± 2.7	3.0 ± 1.8	3.2 ± 2.3
SHORT SPERM HEAD	MEAN±S.D.	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.2
NO HEAD	MEAN±S.D.	1.5 ± 1.2	1.6 ± 1.8	1.2 ± 1.6	1.8 ± 1.6
COILED FLAGELLUM	MEAN±S.D.	0.0 ± 0.0	0.1 ± 0.2	0.0 ± 0.2	0.0 ± 0.2
BENT FLAGELLUM	MEAN±S.D.	0.1 ± 0.2	0.0 ± 0.2	0.0 ± 0.0	0.0 ± 0.0
BENT FLAGELLUM TIP	MEAN±S.D.	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
BROKEN FLAGELLUM	MEAN±S.D.	0.8 ± 1.3	0.8 ± 1.0	0.6 ± 0.7	0.4 ± 0.7

a. Excludes values for rats that were found dead or moribund sacrificed.
b. Excludes values for rat 3639, which had a tan mass on the left cauda epididymis.
c. Excludes values for rat 3671, which had small left epididymis.
d. Excludes values for rat 3687 that had no slide prepared.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
3601	DS(5- 29)	NECK: LESION (DID NOT EXCEED 1.0 CM X 3.0 CM)
	DS(30)	LESION HEALED
	DS(30-135)	LOCALIZED ALOPECIA: NECK a
	DS(35- 81)	NECK: LESION (DID NOT EXCEED 2.0 CM X 1.5 CM)
	DS(82)	LESION HEALED
3602	DS(7- 70)	LOCALIZED ALOPECIA: HEAD
	DS(14- 16)	BACK: LESION (0.2 CM IN DIAMETER)
	DS(17)	LESION HEALED
	DS(43- 55)	ABOVE LEFT EYE: LESION (0.2 CM X 0.5 CM)
	DS(56)	LESION HEALED
	DS(8- 70)	NECK: LESION (DID NOT EXCEED 1.5 CM IN DIAMETER)
	DS(71)	LESION HEALED
	DS(17- 42)	LOCALIZED ALOPECIA: BACK
	DS(43)	ALOPECIA NO LONGER APPARENT
	DS(71-135)	LOCALIZED ALOPECIA: NECK a
3603		NO ADVERSE FINDINGS
3604	DS(20- 87)	LOCALIZED ALOPECIA: LIMBS
	DS(88)	ALOPECIA NO LONGER APPARENT
	DS(94-135)	LOCALIZED ALOPECIA: LIMBS a
3605	DS(8- 28)	NECK: LESION (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DS(29)	LESION HEALED
	DS(26- 42)	LOCALIZED ALOPECIA: NECK
	DS(43)	ALOPECIA NO LONGER APPARENT
3606	DS(123-129)	INCISORS: MISSING/BROKEN
	DS(130)	INCISORS: GROWN IN
3607		NO ADVERSE FINDINGS
3608	DS(82-135)	LOCALIZED ALOPECIA: LIMBS a
	DS(92- 95)	LEFT FOREPAW: LESION (0.2 CM IN DIAMETER)
	DS(96)	LESION HEALED
	DS(120-124)	CHROMORHINORRHEA
3609		NO ADVERSE FINDINGS

DS = DAY OF STUDY
a. *Observation confirmed at necropsy.*

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
3610	DS(5- 54)	NECK: LESION (DID NOT EXCEED 1.5 CM IN DIAMETER)
	DS(55)	LESION HEALED
	DS(38)	CHROMORHINORRHEA
	DS(38- 62)	LOCALIZED ALOPECIA: NECK
	DS(63)	ALOPECIA NO LONGER APPARENT
	DS(40- 47)	LOCALIZED ALOPECIA: LIMBS
	DS(48)	ALOPECIA NO LONGER APPARENT
	DS(50- 62)	LOCALIZED ALOPECIA: LIMBS
	DS(63)	ALOPECIA NO LONGER APPARENT
3611	DS(4- 13)	NECK: LESION (DID NOT EXCEED 0.4 CM IN DIAMETER)
	DS(14)	LESION HEALED
	DS(14- 19)	LOCALIZED ALOPECIA: HEAD
	DS(20)	ALOPECIA NO LONGER APPARENT
3612	DS(10- 19)	NECK: LESION (DID NOT EXCEED 0.4 CM IN DIAMETER)
	DS(20)	LESION HEALED
3613	DS(15- 16)	NECK: LESION (0.2 CM IN DIAMETER)
	DS(17)	LESION HEALED
	DS(17- 19)	RIGHT SHOULDER: LESION (0.5 CM X 1.5 CM)
	DS(20)	LESION HEALED
	DS(17- 19)	LOCALIZED ALOPECIA: NECK
	DS(20)	ALOPECIA NO LONGER APPARENT
3614		NO ADVERSE FINDINGS
3615	DS(4- 8)	BELOW RIGHT EAR: LESION (0.3 CM X 0.5 CM)
	DS(9)	LESION HEALED
3616	DS(8- 23)	NECK: LESION (0.2 CM IN DIAMETER)
	DS(24)	LESION HEALED
3617		NO ADVERSE FINDINGS
3618	DS(96-105)	INCISORS: MISSING/BROKEN
	DS(106)	INCISORS: GROWN IN
3619	DS(126-137)	NECK: MASS (2.0 CM X 1.0 CM X 2.0 CM) a
3620		NO ADVERSE FINDINGS
3621		NO ADVERSE FINDINGS
3622		NO ADVERSE FINDINGS

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
3623	DS(8- 25)	NECK AND RIGHT FORELIMB: LESION (DID NOT EXCEED 0.5 CM X 1.0 CM)
	DS(26)	LESION HEALED
	DS(26- 38)	LOCALIZED ALOPECIA: HEAD
	DS(39)	ALOPECIA NO LONGER APPARENT
	DS(26- 57)	LOCALIZED ALOPECIA: LIMBS
	DS(58)	ALOPECIA NO LONGER APPARENT
	DS(33- 44)	RIGHT FORELIMB: LESION (0.2 CM IN DIAMETER)
	DS(45)	LESION HEALED
	DS(111-126)	LOCALIZED ALOPECIA: NECK
	DS(127)	ALOPECIA NO LONGER APPARENT
3624		NO ADVERSE FINDINGS
3625	DS(1)	DEHYDRATION
	DS(8- 9)	CHROMORHINORRHEA
3626	DS(10- 13)	NECK: LESION (0.2 CM IN DIAMETER)
	DS(14)	LESION HEALED
	DS(14- 21)	LOCALIZED ALOPECIA: HEAD
	DS(22)	ALOPECIA NO LONGER APPARENT
	DS(80)	FOUND DEAD
3627		NO ADVERSE FINDINGS
3628		NO ADVERSE FINDINGS
3629		NO ADVERSE FINDINGS
3630		NO ADVERSE FINDINGS

DS = DAY OF STUDY

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
3631		NO ADVERSE FINDINGS
3632	DS(13- 14)	NECK: LESION (0.2 CM IN DIAMETER)
	DS(15)	LESION HEALED
	DS(15- 19)	LOCALIZED ALOPECIA: HEAD
	DS(20)	ALOPECIA NO LONGER APPARENT
	DS(76- 80)	CHROMORHINORRHEA
3633	DS(50-130)	LOCALIZED ALOPECIA: LIMBS
	DS(131)	ALOPECIA NO LONGER APPARENT
3634		NO ADVERSE FINDINGS
3635		NO ADVERSE FINDINGS
3636	DS(16-135)	CHROMODACRYORRHEA a
	DS(16-135)	INCISORS: MISALIGNED a
	DS(20- 40)	LOCALIZED ALOPECIA: LIMBS
	DS(41)	ALOPECIA NO LONGER APPARENT
	DS(31- 35)	BELOW RIGHT EYE: LESION (0.5 CM IN DIAMETER)
	DS(36)	LESION HEALED
	DS(36- 42)	LOCALIZED ALOPECIA: HEAD
	DS(43)	ALOPECIA NO LONGER APPARENT
	DS(63-135)	INCISORS: MISSING/BROKEN a
	DS(93)	CHROMORHINORRHEA
3637	DS(64-135)	EXOPHTHALMOS a
	DS(131)	CHROMORHINORRHEA
3638	DS(16- 30)	LOCALIZED ALOPECIA: LIMBS
	DS(31)	ALOPECIA NO LONGER APPARENT
	DS(55- 66)	LOCALIZED ALOPECIA: LIMBS
	DS(67)	ALOPECIA NO LONGER APPARENT
	DS(77-124)	LOCALIZED ALOPECIA: LIMBS
	DS(125)	ALOPECIA NO LONGER APPARENT

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
3639	DS(2- 8)	LOCALIZED ALOPECIA: LIMBS
	DS(9)	ALOPECIA NO LONGER APPARENT
	DS(12- 84)	LOCALIZED ALOPECIA: LIMBS
	DS(85)	ALOPECIA NO LONGER APPARENT
	DS(13- 28)	NECK: LESION (DID NOT EXCEED 0.2 CM X 0.5 CM)
	DS(29)	LESION HEALED
	DS(24- 43)	LOCALIZED ALOPECIA: NECK
	DS(44)	ALOPECIA NO LONGER APPARENT
	DS(55- 68)	LOCALIZED ALOPECIA: NECK
	DS(69)	ALOPECIA NO LONGER APPARENT
	DS(77- 86)	LOCALIZED ALOPECIA: NECK
	DS(87)	ALOPECIA NO LONGER APPARENT
	DS(91- 96)	LOCALIZED ALOPECIA: LIMBS
	DS(97)	ALOPECIA NO LONGER APPARENT
	DS(129-136)	LOCALIZED ALOPECIA: LIMBS a
3640	DS(30- 36)	RIGHT SHOULDER: LESION (0.2 CM IN DIAMETER)
	DS(37)	LESION HEALED
	DS(63)	CHROMORHINORRHEA
3641	DS(63- 81)	LOCALIZED ALOPECIA: LIMBS
	DS(82)	ALOPECIA NO LONGER APPARENT
3642		NO ADVERSE FINDINGS
3643		NO ADVERSE FINDINGS
3644	DS(3)	DEHYDRATION
	DS(5- 21)	NECK: LESION (DID NOT EXCEED 0.2 CM X 0.5 CM)
	DS(22)	LESION HEALED
	DS(16- 23)	LOCALIZED ALOPECIA: NECK
	DS(24)	ALOPECIA NO LONGER APPARENT
3645		NO ADVERSE FINDINGS
3646		NO ADVERSE FINDINGS
3647	DS(38- 45)	CHROMODACRYORRHEA
	DS(38-105)	INCISORS: MISALIGNED
	DS(106)	INCISORS: REALIGNED
	DS(51- 53)	CHROMORHINORRHEA
	DS(72-137)	INCISORS: MISSING/BROKEN a
	DS(125)	CHROMORHINORRHEA
	DS(134-137)	INCISORS: MISALIGNED a

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
3648	DS(52- 54)	CHROMORHINORRHEA
	DS(52- 59)	SWOLLEN SNOUT
	DS(60)	SWOLLEN SNOUT NO LONGER APPARENT
	DS(52- 62)	CHROMODACRYORRHEA
	DS(52-130)	INCISORS: MISALIGNED
	DS(131)	INCISORS: REALIGNED
	DS(63- 74)	INCISORS: MISSING/BROKEN
	DS(75)	INCISORS: GROWN IN
	DS(64-137)	CHROMODACRYORRHEA a
	DS(111-112)	SWOLLEN SNOUT
	DS(126)	CHROMORHINORRHEA
3649	DS(3- 4)	HEAD: LESION (0.2 CM X 0.3 CM)
	DS(5)	LESION HEALED
	DS(5- 7)	LOCALIZED ALOPECIA: HEAD
	DS(8)	ALOPECIA NO LONGER APPARENT
	DS(112)	SWOLLEN SNOUT
	DS(112-113)	CHROMORHINORRHEA
	DS(112-130)	INCISORS: MISALIGNED
	DS(131)	INCISORS: REALIGNED
	DS(112-137)	CHROMODACRYORRHEA a
3650		NO ADVERSE FINDINGS
3651	DS(76- 77)	CHROMORHINORRHEA
3652	DS(10- 58)	NECK: LESION (DID NOT EXCEED 1.5 CM IN DIAMETER)
	DS(59)	LESION HEALED
	DS(51- 62)	LOCALIZED ALOPECIA: NECK
	DS(63)	ALOPECIA NO LONGER APPARENT
3653		NO ADVERSE FINDINGS
3654		NO ADVERSE FINDINGS
3655		NO ADVERSE FINDINGS
3656		NO ADVERSE FINDINGS
3657	DS(94- 95)	CHROMORHINORRHEA
	DS(111-112)	CHROMORHINORRHEA
3658	DS(96-103)	INCISORS: MISALIGNED
	DS(104)	INCISORS: REALIGNED

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
3659	DS(2- 12)	HEAD: LESION (DID NOT EXCEED 0.5 CM IN DIAMETER)
	DS(13)	LESION HEALED
	DS(20- 68)	BACK: LESION (DID NOT EXCEED 0.5 CM X 1.0 CM)
	DS(69)	LESION HEALED
	DS(47- 70)	LOCALIZED ALOPECIA: BACK
	DS(71)	ALOPECIA NO LONGER APPARENT
3660	DS(3- 4)	DEHYDRATION
	DS(4)	CHROMORHINORRHEA

DS = DAY OF STUDY

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
3661	DS(17- 42)	LOCALIZED ALOPECIA: LIMBS
	DS(43)	ALOPECIA NO LONGER APPARENT
3662		NO ADVERSE FINDINGS
3663	DS(62-126)	CHROMODACRYORRHEA
	DS(62-135)	INCISORS: MISALIGNED a
	DS(120-135)	INCISORS: MISSING/BROKEN a
	DS(132-135)	CHROMODACRYORRHEA a
3664	DS(20- 25)	LOWER MIDLINE: LESION (0.5 CM IN DIAMETER)
	DS(26)	LESION HEALED
	DS(26-103)	LOCALIZED ALOPECIA: UNDERSIDE
	DS(104)	ALOPECIA NO LONGER APPARENT
	DS(36- 42)	LOWER MIDLINE: LESIONS (0.2 CM IN DIAMETER)
	DS(43)	LESION HEALED
	DS(59- 72)	LOWER MIDLINE: LESION (0.2 CM IN DIAMETER)
	DS(73)	LESION HEALED
3665	DS(8- 21)	NECK: LESION (0.5 CM IN DIAMETER)
	DS(22)	LESION HEALED
3666		NO ADVERSE FINDINGS
3667	DS(84)	CHROMORHINORRHEA
3668		NO ADVERSE FINDINGS
3669	DS(24- 45)	HEAD TILT
	DS(46)	HEAD TILT NO LONGER APPARENT
3670	DS(78- 82)	UPPER LEFT LIP: LESION (0.1 CM X 0.2 CM)
	DS(83)	LESION HEALED
3671	DS(15- 25)	NECK: LESION (0.2 CM IN DIAMETER)
	DS(26)	LESION HEALED
3672		NO ADVERSE FINDINGS
3673		NO ADVERSE FINDINGS
3674		NO ADVERSE FINDINGS
3675		NO ADVERSE FINDINGS
3676		NO ADVERSE FINDINGS

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
3677	DS(15- 64)	NECK AND RIGHT AND LEFT FORELIMB: LESION (DID NOT EXCEED 0.8 CM IN DIAMETER)
	DS(65)	LESION HEALED
	DS(47- 77)	LOCALIZED ALOPECIA: NECK
	DS(78)	ALOPECIA NO LONGER APPARENT
	DS(63- 76)	LOCALIZED ALOPECIA: LIMBS
	DS(77)	ALOPECIA NO LONGER APPARENT
	DS(71-137)	LENTICULAR OPACITY a
	DS(111-137)	LOCALIZED ALOPECIA: LIMBS a
3678		NO ADVERSE FINDINGS
3679	DS(3)	DEHYDRATION
	DS(8- 68)	NECK: LESION (DID NOT EXCEED 1.0 CM X 3.0 CM)
	DS(69)	LESION HEALED
	DS(15- 21)	LOCALIZED ALOPECIA: HEAD
	DS(22)	ALOPECIA NO LONGER APPARENT
	DS(46- 62)	LOCALIZED ALOPECIA: NECK
	DS(63)	ALOPECIA NO LONGER APPARENT
3680	DS(62- 67)	CHROMODACRYORRHEA
	DS(69- 71)	CHROMODACRYORRHEA
	DS(73- 95)	CHROMODACRYORRHEA
	DS(125-137)	CHROMODACRYORRHEA a
3681	DS(1)	DEHYDRATION
	DS(112-114)	CHROMORHINORRHEA
3682	DS(43- 83)	INCISORS: MISSING/BROKEN
	DS(84)	INCISORS: GROWN IN
	DS(43-137)	INCISORS: MISALIGNED a
	DS(104-109)	CHROMORHINORRHEA
3683	DS(14- 31)	NECK: LESION (DID NOT EXCEED 0.5 CM IN DIAMETER)
	DS(32)	LESION HEALED
	DS(23- 28)	LOCALIZED ALOPECIA: NECK
	DS(29)	ALOPECIA NO LONGER APPARENT
3684	DS(17- 77)	NECK: LESION (DID NOT EXCEED 0.5 CM X 1.5 CM)
	DS(78)	LESION HEALED
	DS(56- 62)	LOCALIZED ALOPECIA: NECK
	DS(63)	ALOPECIA NO LONGER APPARENT
	DS(78- 86)	LOCALIZED ALOPECIA: NECK
	DS(87)	ALOPECIA NO LONGER APPARENT

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 10): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
3685		NO ADVERSE FINDINGS
3686		NO ADVERSE FINDINGS
3687	DS(9- 30)	NECK: LESION (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DS(31)	LESION HEALED
	DS(31- 42)	LOCALIZED ALOPECIA: NECK
	DS(43)	ALOPECIA NO LONGER APPARENT
3688		NO ADVERSE FINDINGS
3689		NO ADVERSE FINDINGS
3690		NO ADVERSE FINDINGS

DS = DAY OF STUDY

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 11): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
3691		NO ADVERSE FINDINGS
3692	DS(20)	CHROMORHINORRHEA
3693	DS(23- 27)	BACK: LESION (0.5 CM IN DIAMETER)
	DS(28)	LESION HEALED
	DS(130-133)	CHROMORHINORRHEA
3694	DS(111-116)	CHROMORHINORRHEA
3695		NO ADVERSE FINDINGS
3696	DS(2- 12)	HEAD: LESION (0.2 CM X 0.4 CM)
	DS(13)	LESION HEALED
	DS(2- 70)	NECK: LESION (DID NOT EXCEED 1.5 CM X 2.0 CM)
	DS(71)	LESION HEALED
	DS(50- 89)	LOCALIZED ALOPECIA: NECK
	DS(90)	ALOPECIA NO LONGER APPARENT
	DS(94-103)	LOCALIZED ALOPECIA: NECK
	DS(104)	ALOPECIA NO LONGER APPARENT
	DS(111-130)	LOCALIZED ALOPECIA: NECK
	DS(131)	ALOPECIA NO LONGER APPARENT
3697	DS(8- 30)	NECK: LESION (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DS(31)	LESION HEALED
	DS(16- 21)	LOCALIZED ALOPECIA: BACK
	DS(22)	ALOPECIA NO LONGER APPARENT
	DS(26- 37)	LOCALIZED ALOPECIA: NECK
	DS(38)	ALOPECIA NO LONGER APPARENT
3698	DS(40)	CHROMODACRYORRHEA a
	DS(40)	SWOLLEN SNOUT a
	DS(40)	BROKEN PALATE a
	DS(40)	INCISORS: MISALIGNED a
	DS(40)	INCISORS: MISSING/BROKEN a
	DS(40)	VOCALIZATION a
	DS(40)	MORIBUND SACRIFICE
3699		NO ADVERSE FINDINGS
3700		NO ADVERSE FINDINGS
3701	DS(107)	CHROMORHINORRHEA
	DS(119)	CHROMORHINORRHEA
3702		NO ADVERSE FINDINGS
3703		NO ADVERSE FINDINGS
3704		NO ADVERSE FINDINGS

DS = DAY OF STUDY
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 12): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
3705	DS(24- 42)	BACK: LESION (DID NOT EXCEED 0.5 CM X 1.0 CM)
	DS(43)	LESION HEALED
	DS(43- 49)	LOCALIZED ALOPECIA: BACK
	DS(50)	ALOPECIA NO LONGER APPARENT
3706		NO ADVERSE FINDINGS
3707		NO ADVERSE FINDINGS
3708	DS(6- 45)	HEAD: LESION (DID NOT EXCEED 2.5 CM X 1.0 CM)
	DS(46)	LESION HEALED
	DS(8- 65)	BEHIND RIGHT EAR: LESION (DID NOT EXCEED 0.5 CM X 1.0 CM)
	DS(66)	LESION HEALED
	DS(9- 68)	NECK: LESION (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DS(69)	LESION HEALED
	DS(46- 70)	RIGHT SHOULDER: LESION (DID NOT EXCEED 1.0 CM X 3.0 CM)
	DS(71)	LESION HEALED
	DS(30- 42)	LOCALIZED ALOPECIA: NECK
	DS(43)	ALOPECIA NO LONGER APPARENT
	DS(45- 71)	LOCALIZED ALOPECIA: BACK
	DS(46- 52)	LOCALIZED ALOPECIA: HEAD
	DS(53)	ALOPECIA NO LONGER APPARENT
	DS(64- 71)	LOCALIZED ALOPECIA: HEAD
	DS(72)	ALOPECIA NO LONGER APPARENT
3709	DS(40- 44)	LEFT FORELIMB: LESION (0.2 CM IN DIAMETER)
	DS(45)	LESION HEALED
	DS(62- 70)	LEFT FORELIMB: LESION (0.2 CM IN DIAMETER)
	DS(71)	LESION HEALED
	DS(71- 86)	LOCALIZED ALOPECIA: LIMBS
	DS(87)	ALOPECIA NO LONGER APPARENT
	DS(104-133)	LOCALIZED ALOPECIA: LIMBS
	DS(134)	ALOPECIA NO LONGER APPARENT
3710		NO ADVERSE FINDINGS
3711		NO ADVERSE FINDINGS
3712	DS(43- 50)	INCISORS: MISSING/BROKEN
	DS(51)	INCISORS: GROWN IN
3713		NO ADVERSE FINDINGS
3714		NO ADVERSE FINDINGS
3715	DS(11- 23)	NECK: LESION (0.4 CM IN DIAMETER)
	DS(24)	LESION HEALED
3716		NO ADVERSE FINDINGS
3717		NO ADVERSE FINDINGS

DS = DAY OF STUDY

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B16 (PAGE 13): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
3718	DS(7- 14)	NECK AND BELOW RIGHT EAR: LESION (0.2 CM IN DIAMETER)
	DS(15)	LESION HEALED
	DS(15- 21)	LOCALIZED ALOPECIA: HEAD
	DS(22)	ALOPECIA NO LONGER APPARENT
3719		NO ADVERSE FINDINGS
3720		NO ADVERSE FINDINGS

DS = DAY OF STUDY

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 1): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a	78	85b	92	99	106
RAT #	DOSAGE GROUP 1								0 (CARRIER) MG/KG/DAY							
3601	153.	209.	254.	301.	331.	362.	372.	395.	408.	428.	441.	450.	461.	484.	493.	503.
3602	183.	263.	321.	373.	406.	435.	462.	490.	520.	542.	549.	562.	577.	598.	596.	616.
3603	178.	245.	296.	338.	372.	400.	414.	445.	468.	494.	507.	504.	519.	549.	553.	561.
3604	165.	226.	274.	304.	328.	354.	372.	392.	405.	422.	434.	433.	455.	480.	496.	509.
3605	153.	217.	272.	312.	330.	344.	358.	373.	387.	407.	417.	438.	453.	475.	499.	508.
3606	184.	253.	308.	356.	387.	422.	444.	471.	493.	512.	535.	543.	555.	571.	585.	596.
3607	170.	235.	287.	322.	344.	372.	384.	395.	411.	435.	440.	450.	452.	477.	486.	495.
3608	170.	251.	325.	374.	408.	459.	483.	512.	530.	554.	559.	564.	583.	610.	622.	633.
3609	154.	215.	278.	331.	375.	412.	434.	455.	482.	497.	502.	526.	526.	546.	552.	564.
3610	176.	244.	313.	362.	396.	438.	471.	507.	531.	574.	582.	607.	609.	649.	658.	676.
3611	167.	235.	292.	334.	365.	389.	412.	439.	458.	478.	494.	501.	503.	523.	528.	541.
3612	167.	242.	305.	361.	398.	427.	452.	475.	495.	518.	531.	546.	555.	584.	599.	621.
3613	157.	218.	277.	321.	358.	400.	420.	453.	477.	504.	523.	526.	539.	560.	578.	600.
3614	175.	240.	296.	332.	362.	390.	406.	430.	451.	473.	480.	490.	496.	522.	537.	550.
3615	164.	227.	286.	324.	353.	376.	393.	417.	433.	445.	460.	457.	459.	476.	492.	498.
3616	170.	244.	305.	345.	362.	403.	426.	455.	473.	497.	513.	513.	527.	555.	562.	583.
3617	157.	230.	295.	345.	380.	417.	446.	490.	519.	551.	563.	578.	587.	623.	642.	654.
3618	176.	247.	308.	361.	397.	426.	449.	477.	507.	527.	536.	543.	545.	565.	556.	571.
3619	167.	234.	304.	354.	382.	418.	444.	464.	486.	507.	520.	522.	539.	564.	574.	585.
3620	159.	228.	279.	329.	367.	402.	421.	449.	466.	486.	503.	514.	525.	551.	555.	564.
3621	174.	249.	312.	360.	405.	447.	469.	497.	518.	544.	557.	570.	582.	607.	624.	642.
3622	178.	254.	321.	375.	423.	467.	505.	536.	567.	598.	612.	606.	620.	656.	668.	680.
3623	168.	238.	293.	338.	371.	402.	420.	440.	460.	478.	490.	466.	498.	526.	531.	550.
3624	166.	237.	306.	360.	402.	447.	479.	514.	544.	568.	591.	606.	621.	648.	661.	684.
3625	111.	212.	276.	318.	352.	395.	423.	447.	468.	488.	508.	511.	524.	556.	561.	582.
3626	174.	241.	311.	361.	398.	435.	466.	498.	521.	535.	549.	550.	c			
3627	163.	232.	294.	327.	362.	403.	427.	458.	489.	516.	531.	549.	568.	596.	607.	627.
3628	179.	260.	322.	375.	413.	451.	483.	510.	533.	556.	583.	590.	605.	639.	656.	671.
3629	169.	238.	300.	352.	382.	417.	454.	479.	502.	513.	542.	553.	559.	585.	584.	600.
3630	164.	223.	285.	326.	353.	374.	389.	406.	421.	437.	446.	460.	467.	479.	483.	496.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Rat 3626 was found dead on day 80 of study.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 2): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	113	120	127	134	TERMINAL BODY WEIGHT
RAT #	DOSAGE GROUP 1				0 (CARRIER) MG/KG/DAY
3601	522.	530.	526.	537.	540.
3602	634.	644.	644.	654.	657.
3603	583.	587.	590.	603.	602.
3604	519.	530.	534.	549.	550.
3605	530.	539.	537.	547.	550.
3606	609.	623.	631.	634.	650.
3607	511.	519.	520.	521.	528.
3608	647.	649.	656.	664.	668.
3609	584.	585.	591.	600.	614.
3610	680.	683.	685.	683.	697.
3611	548.	549.	561.	578.	593.
3612	638.	634.	640.	648.	662.
3613	614.	615.	623.	629.	635.
3614	568.	574.	580.	583.	597.
3615	511.	518.	515.	518.	532.
3616	602.	613.	627.	637.	653.
3617	673.	672.	681.	690.	702.
3618	590.	593.	605.	604.	615.
3619	600.	599.	610.	597.	615.
3620	579.	588.	587.	606.	619.
3621	651.	652.	667.	682.	695.
3622	706.	723.	729.	733.	751.
3623	560.	566.	566.	572.	582.
3624	688.	713.	712.	731.	745.
3625	594.	597.	603.	611.	627.
3626	FOUND DEAD ON DAY 80 OF STUDY				
3627	638.	650.	661.	678.	694.
3628	693.	697.	709.	720.	734.
3629	617.	630.	640.	639.	651.
3630	504.	508.	522.	532.	547.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 3): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a	78	85b	92	99	106
RAT #	DOSAGE GROUP 2								0.3 MG/KG/DAY							
3631	150.	211.	259.	295.	324.	351.	370.	398.	407.	418.	430.	437.	438.	464.	482.	493.
3632	188.	269.	338.	398.	445.	483.	522.	552.	590.	616.	638.	610.	662.	679.	690.	716.
3633	165.	238.	302.	361.	395.	432.	456.	475.	500.	524.	510.	544.	556.	577.	584.	602.
3634	170.	233.	294.	340.	373.	410.	438.	462.	490.	512.	529.	542.	558.	592.	602.	626.
3635	150.	215.	271.	317.	361.	400.	425.	445.	477.	502.	523.	529.	533.	554.	570.	594.
3636	180.	256.	322.	367.	402.	434.	465.	498.	525.	537.	559.	571.	564.	612.	621.	630.
3637	162.	234.	299.	345.	376.	404.	430.	460.	481.	501.	520.	542.	546.	578.	590.	610.
3638	169.	209.	305.	367.	416.	462.	455.	525.	559.	594.	615.	624.	636.	662.	670.	681.
3639	159.	221.	278.	304.	345.	378.	406.	427.	453.	471.	486.	490.	505.	522.	526.	540.
3640	176.	240.	293.	331.	363.	393.	412.	441.	463.	491.	503.	508.	516.	547.	566.	572.
3641	168.	248.	318.	395.	437.	482.	506.	545.	573.	599.	614.	634.	644.	667.	678.	698.
3642	167.	238.	299.	358.	398.	432.	457.	492.	509.	530.	544.	546.	548.	577.	585.	598.
3643	158.	230.	293.	339.	380.	413.	433.	456.	477.	494.	506.	514.	519.	534.	546.	559.
3644	186.	250.	327.	399.	451.	498.	530.	562.	591.	618.	641.	655.	666.	670.	685.	708.
3645	171.	235.	300.	358.	397.	438.	467.	494.	520.	548.	570.	566.	575.	606.	634.	647.
3646	168.	243.	308.	358.	400.	441.	460.	501.	521.	547.	566.	566.	580.	605.	613.	630.
3647	165.	237.	302.	354.	402.	438.	457.	482.	502.	518.	533.	540.	556.	575.	583.	598.
3648	176.	230.	305.	362.	403.	441.	471.	500.	497.	524.	523.	544.	558.	577.	579.	590.
3649	161.	222.	276.	318.	345.	371.	402.	428.	444.	465.	487.	493.	501.	524.	532.	547.
3650	172.	247.	316.	359.	395.	425.	448.	481.	505.	533.	551.	559.	570.	610.	618.	633.
3651	154.	217.	277.	314.	353.	373.	392.	411.	429.	447.	449.	464.	474.	505.	506.	519.
3652	177.	252.	311.	363.	402.	443.	464.	492.	512.	534.	549.	552.	562.	594.	601.	615.
3653	165.	237.	285.	320.	351.	374.	391.	397.	415.	428.	443.	445.	448.	466.	477.	484.
3654	169.	246.	311.	359.	393.	435.	462.	486.	506.	526.	545.	551.	559.	583.	590.	607.
3655	161.	218.	275.	324.	354.	389.	419.	443.	465.	481.	501.	507.	513.	548.	547.	564.
3656	170.	231.	293.	332.	367.	401.	413.	443.	476.	468.	517.	533.	534.	562.	577.	591.
3657	171.	249.	319.	357.	388.	416.	445.	476.	505.	536.	561.	576.	589.	628.	632.	650.
3658	167.	228.	281.	326.	358.	405.	434.	449.	470.	483.	498.	490.	498.	517.	518.	532.
3659	165.	236.	307.	360.	409.	445.	478.	510.	536.	546.	561.	563.	577.	612.	616.	636.
3660	169.	207.	276.	322.	359.	399.	423.	443.	468.	494.	509.	503.	521.	552.	557.	571.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 4): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	113	120	127	134	TERMINAL BODY WEIGHT
RAT #	DOSAGE GROUP 2				0.3 MG/KG/DAY
3631	515.	511.	518.	525.	536.
3632	727.	734.	741.	756.	757.
3633	621.	623.	629.	640.	650.
3634	632.	651.	665.	678.	686.
3635	610.	615.	630.	644.	655.
3636	648.	655.	659.	657.	676.
3637	633.	645.	642.	661.	671.
3638	701.	706.	714.	705.	718.
3639	554.	556.	559.	560.	569.
3640	595.	589.	595.	598.	604.
3641	705.	711.	717.	728.	738.
3642	618.	610.	594.	606.	618.
3643	562.	570.	571.	572.	577.
3644	722.	729.	737.	738.	755.
3645	668.	670.	681.	694.	706.
3646	653.	659.	668.	679.	689.
3647	611.	617.	616.	618.	634.
3648	604.	611.	590.	601.	623.
3649	530.	537.	547.	557.	580.
3650	642.	649.	666.	674.	680.
3651	529.	535.	543.	548.	566.
3652	633.	629.	645.	638.	648.
3653	495.	496.	499.	506.	510.
3654	622.	632.	640.	649.	658.
3655	578.	584.	583.	591.	605.
3656	601.	619.	613.	618.	631.
3657	671.	675.	666.	680.	701.
3658	548.	555.	564.	570.	586.
3659	648.	662.	670.	680.	690.
3660	588.	598.	602.	610.	622.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 5): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a	78	85b	92	99	106
RAT #	DOSAGE GROUP 3									3.0 MG/KG/DAY						
3661	153.	208.	264.	311.	350.	387.	418.	446.	474.	503.	521.	537.	556.	577.	592.	613.
3662	188.	261.	323.	376.	415.	444.	478.	506.	537.	560.	583.	576.	585.	623.	628.	643.
3663	168.	239.	295.	324.	360.	393.	420.	446.	462.	474.	494.	504.	503.	538.	550.	575.
3664	174.	249.	312.	356.	393.	418.	443.	463.	488.	509.	533.	542.	557.	586.	606.	618.
3665	158.	226.	289.	335.	365.	389.	404.	430.	455.	463.	484.	493.	503.	530.	545.	566.
3666	186.	265.	338.	390.	438.	484.	522.	562.	593.	624.	635.	650.	668.	697.	700.	721.
3667	166.	243.	309.	362.	410.	446.	476.	512.	528.	561.	574.	590.	606.	639.	654.	660.
3668	173.	246.	308.	347.	385.	417.	448.	468.	491.	514.	525.	542.	551.	587.	586.	616.
3669	147.	205.	259.	294.	324.	354.	380.	402.	431.	454.	469.	482.	498.	528.	552.	577.
3670	173.	245.	305.	358.	402.	440.	461.	488.	517.	540.	560.	563.	584.	612.	614.	635.
3671	163.	229.	296.	342.	390.	420.	435.	458.	477.	502.	520.	534.	539.	571.	582.	594.
3672	171.	241.	308.	355.	397.	438.	464.	494.	525.	550.	585.	603.	625.	653.	657.	689.
3673	161.	232.	290.	333.	370.	396.	420.	444.	469.	487.	509.	524.	535.	554.	560.	584.
3674	152.	239.	311.	367.	412.	456.	471.	512.	541.	557.	551.	562.	572.	601.	616.	625.
3675	169.	239.	301.	345.	376.	402.	412.	444.	470.	490.	497.	507.	517.	536.	548.	568.
3676	165.	227.	282.	346.	390.	423.	399.	490.	522.	548.	571.	579.	585.	614.	631.	635.
3677	165.	242.	309.	354.	388.	419.	445.	474.	495.	523.	547.	547.	566.	592.	611.	633.
3678	176.	249.	319.	372.	412.	447.	473.	499.	512.	538.	554.	560.	577.	602.	608.	623.
3679	169.	226.	293.	341.	384.	417.	448.	476.	492.	524.	544.	562.	567.	593.	611.	632.
3680	167.	230.	290.	332.	371.	399.	431.	456.	477.	502.	516.	529.	545.	572.	584.	602.
3681	130.	218.	274.	315.	347.	381.	402.	414.	437.	459.	482.	491.	502.	531.	531.	543.
3682	177.	251.	318.	366.	406.	440.	453.	494.	514.	542.	556.	584.	594.	629.	639.	645.
3683	164.	236.	302.	350.	394.	427.	453.	474.	492.	512.	522.	527.	537.	565.	574.	589.
3684	170.	244.	309.	353.	392.	420.	451.	477.	501.	516.	520.	530.	531.	562.	576.	597.
3685	174.	246.	314.	358.	402.	435.	458.	486.	513.	534.	559.	573.	579.	610.	631.	644.
3686	160.	233.	309.	370.	421.	462.	492.	520.	552.	575.	592.	608.	625.	653.	665.	679.
3687	160.	224.	262.	285.	316.	339.	366.	386.	404.	420.	434.	450.	453.	479.	486.	497.
3688	171.	236.	296.	339.	370.	400.	432.	450.	468.	482.	496.	500.	511.	525.	540.	552.
3689	160.	229.	281.	319.	357.	393.	408.	439.	461.	476.	496.	506.	520.	543.	563.	577.
3690	175.	254.	331.	390.	436.	470.	510.	543.	567.	593.	617.	624.	644.	674.	688.	706.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 6): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	113	120	127	134	TERMINAL BODY WEIGHT
RAT #	DOSAGE GROUP 3				3.0 MG/KG/DAY
3661	634.	645.	658.	669.	672.
3662	662.	666.	675.	680.	688.
3663	588.	587.	596.	606.	618.
3664	637.	642.	643.	657.	661.
3665	584.	599.	608.	609.	617.
3666	744.	748.	752.	762.	768.
3667	676.	692.	692.	697.	705.
3668	630.	633.	635.	640.	649.
3669	582.	591.	595.	614.	620.
3670	649.	652.	663.	676.	683.
3671	614.	617.	622.	627.	632.
3672	698.	704.	724.	748.	734.
3673	599.	605.	614.	620.	634.
3674	647.	654.	657.	658.	668.
3675	582.	585.	587.	591.	599.
3676	663.	675.	666.	674.	691.
3677	652.	660.	664.	668.	678.
3678	643.	639.	645.	654.	657.
3679	646.	660.	666.	677.	677.
3680	625.	633.	641.	653.	667.
3681	558.	558.	572.	581.	592.
3682	673.	684.	689.	690.	720.
3683	603.	603.	616.	611.	631.
3684	619.	624.	635.	643.	668.
3685	711.a	665.	669.	679.	681.
3686	705.	705.	714.	720.	731.
3687	504.	512.	515.	520.	533.
3688	575.	580.	586.	583.	606.
3689	604.	621.	625.	639.	654.
3690	724.	736.	747.	775.	784.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 7): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a	78	85b	92	99	106
RAT #	DOSAGE GROUP 4									30.0 MG/KG/DAY						
3691	156.	217.	268.	306.	340.	369.	398.	427.	450.	462.	472.	489.	498.	522.	531.	547.
3692	182.	249.	315.	360.	389.	422.	445.	479.	497.	514.	534.	541.	548.	574.	582.	594.
3693	168.	239.	306.	357.	388.	414.	435.	454.	480.	501.	502.	517.	531.	552.	566.	579.
3694	169.	243.	309.	359.	400.	433.	460.	482.	505.	522.	538.	558.	568.	580.	587.	602.
3695	152.	228.	290.	345.	392.	427.	451.	488.	507.	530.	517.	553.	564.	596.	594.	611.
3696	175.	244.	298.	341.	373.	405.	421.	451.	462.	477.	490.	507.	511.	539.	548.	569.
3697	167.	229.	285.	328.	372.	404.	432.	459.	479.	505.	523.	534.	548.	573.	579.	594.
3698	168.	236.	300.	347.	386.	415.	MORIBUND SACRIFICED ON DAY 40 OF STUDY									
3699	157.	229.	282.	324.	361.	387.	416.	437.	461.	480.	491.	488.	499.	516.	531.	552.
3700	174.	251.	315.	359.	403.	446.	477.	510.	541.	565.	592.	599.	620.	658.	667.	689.
3701	168.	243.	307.	356.	392.	430.	454.	486.	509.	532.	543.	567.	586.	617.	623.	642.
3702	170.	245.	316.	370.	402.	433.	464.	479.	497.	518.	536.	537.	554.	572.	585.	603.
3703	157.	224.	285.	324.	363.	392.	420.	447.	467.	486.	505.	521.	538.	564.	580.	604.
3704	153.	250.	312.	377.	391.	423.	451.	475.	486.	514.	524.	530.	540.	562.	585.	602.
3705	164.	229.	288.	334.	379.	419.	441.	472.	502.	522.	532.	530.	538.	572.	574.	583.
3706	166.	230.	285.	319.	338.	361.	371.	388.	405.	413.	416.	428.	433.	462.	473.	487.
3707	154.	218.	267.	289.	307.	324.	345.	363.	378.	388.	395.	408.	418.	426.	430.	439.
3708	180.	243.	292.	339.	374.	418.	438.	464.	482.	505.	538.	524.	549.	592.	610.	625.
3709	160.	218.	274.	311.	349.	379.	398.	409.	396.	448.	462.	483.	497.	509.	521.	508.
3710	169.	237.	290.	323.	356.	384.	409.	426.	449.	461.	481.	483.	498.	524.	536.	549.
3711	161.	231.	300.	345.	388.	416.	442.	459.	480.	498.	511.	520.	530.	549.	560.	574.
3712	178.	252.	313.	360.	391.	422.	455.	473.	500.	517.	530.	544.	540.	572.	585.	609.
3713	161.	228.	293.	340.	377.	413.	442.	463.	492.	513.	528.	538.	550.	588.	601.	610.
3714	175.	256.	328.	378.	411.	442.	473.	502.	536.	560.	580.	596.	602.	649.	666.	678.
3715	162.	232.	294.	339.	379.	414.	437.	464.	485.	504.	518.	534.	544.	574.	590.	603.
3716	172.	235.	296.	346.	391.	428.	451.	472.	491.	508.	523.	534.	541.	562.	571.	590.
3717	166.	235.	298.	346.	386.	411.	434.	457.	474.	492.	508.	506.	524.	534.	549.	560.
3718	174.	243.	298.	341.	378.	413.	441.	465.	492.	512.	536.	546.	564.	586.	604.	624.
3719	160.	226.	290.	342.	375.	405.	432.	460.	479.	494.	507.	517.	530.	548.	560.	581.
3720	169.	246.	307.	340.	366.	396.	420.	442.	464.	482.	495.	504.	513.	542.	549.	564.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B17 (PAGE 8): BODY WEIGHTS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAY	113	120	127	134	TERMINAL BODY WEIGHT
RAT #	DOSAGE GROUP 4				30.0 MG/KG/DAY
3691	553.	565.	563.	574.	582.
3692	608.	614.	617.	627.	639.
3693	588.	594.	595.	597.	609.
3694	610.	622.	627.	636.	644.
3695	626.	633.	634.	639.	649.
3696	584.	589.	602.	616.	619.
3697	613.	617.	623.	631.	639.
3698	MORIBUND SACRIFICED ON DAY 40 OF STUDY				
3699	569.	575.	583.	590.	592.
3700	711.	718.	732.	741.	755.
3701	663.	664.	678.	690.	716.
3702	609.	617.	629.	641.	648.
3703	618.	617.	628.	645.	660.
3704	621.	632.	641.	652.	661.
3705	601.	605.	609.	619.	635.
3706	499.	507.	506.	516.	529.
3707	452.	452.	466.	474.	491.
3708	650.	647.	666.	665.	684.
3709	548.	560.	544.	565.	591.
3710	563.	570.	578.	591.	598.
3711	586.	590.	597.	609.	615.
3712	638.	645.	658.	668.	690.
3713	635.	640.	651.	656.	672.
3714	694.	701.	712.	712.	734.
3715	622.	624.	636.	648.	662.
3716	603.	608.	614.	625.	632.
3717	577.	575.	580.	586.	595.
3718	632.	651.	652.	654.	670.
3719	602.	608.	606.	617.	626.
3720	575.	577.	586.	601.	610.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 1): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY						
3601	63.	73.	109.	68.	68.	100.	68.	72.	106.	81.	78.	111.	77.	78.
3602	79.	83.	141.	88.	94.	134.	91.	102.	143.	92.	96.	144.	99.	93.
3603	72.	74.	113.	79.	a	116.	78.	84.	121.	79.	74.	124.	76.	87.
3604	61.	63.	105.	65.	61.	95.	62.	66.	91.	63.	58.	89.	61.	59.
3605	54.	75.	109.	71.	74.	108.	62.	78.	101.	70.	79.	108.	74.	78.
3606	63.	79.	124.	84.	85.	121.	83.	90.	131.	88.	94.	152.	87.	96.
3607	56.	60.	98.	65.	70.	100.	65.	68.	102.	67.	62.	94.	64.	64.
3608	64.	68.	110.	78.	81.	116.	79.	77.	119.	77.	76.	108.	72.	67.
3609	59.	60.	98.	67.	60.	108.	71.	75.	111.	77.	76.	115.	79.	86.
3610	38.	71.	111.	73.	58.	118.	82.	85.	132.	87.	82.	123.	86.	87.
3611	76.	75.	119.	81.	84.	130.	80.	87.	125.	81.	80.	119.	82.	85.
3612	78.	82.	128.	89.	85.	126.	86.	91.	136.	94.	95.	153.	100.	89.
3613	65.	64.	100.	68.	64.	115.	75.	86.	129.	84.	81.	126.	86.	88.
3614	97.	103.	140.	84.	84.	138.	95.	99.	161.	101.	103.	152.	101.	110.
3615	71.	83.	131.	91.	62.	145.	108.	105.	155.	103.	108.	148.	97.	100.
3616	72.	77.	126.	77.	90.	128.	81.	84.	132.	82.	77.	87.	73.	89.
3617	61.	67.	105.	69.	73.	108.	73.	76.	105.	75.	71.	106.	68.	73.
3618	64.	65.	101.	69.	69.	107.	76.	75.	114.	73.	74.	117.	80.	76.
3619	61.	100.	167.	110.	120.	173.	121.	127.	178.	135.	119.	160.	111.	124.
3620	83.	82.	140.	87.	105.	151.	100.	100.	161.	123.	105.	134.	109.	107.
3621	80.	84.	135.	83.	87.	60.	86.	93.	139.	87.	92.	74.	83.	86.
3622	71.	84.	132.	86.	97.	139.	91.	94.	153.	91.	94.	148.	92.	94.
3623	60.	67.	105.	69.	67.	102.	71.	76.	117.	75.	71.	116.	76.	71.
3624	68.	70.	113.	73.	87.	112.	81.	99.	134.	90.	106.	120.	94.	103.
3625	68.	84.	143.	85.	95.	120.	88.	102.	152.	97.	95.	122.	89.	91.
3626	72.	77.	115.	78.	83.	131.	92.	94.	142.	96.	93.	136.	84.	92.
3627	70.	75.	120.	80.	86.	133.	87.	100.	138.	94.	91.	80.	90.	102.
3628	73.	80.	125.	80.	77.	122.	79.	86.	120.	77.	80.	108.	72.	77.
3629	77.	76.	120.	84.	85.	129.	93.	105.	147.	99.	113.	146.	108.	110.
3630	63.	64.	96.	69.	68.	100.	69.	74.	99.	65.	72.	72.	64.	67.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 2): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY						
3601	117.	76.	76.	94.	69.	75.	102.	69.	81.	110.	75.	81.	105.	73.
3602	132.	92.	85.	142.	84.	92.	130.	84.	93.	133.	87.	95.	126.	90.
3603	122.	90.	90.	112.	83.	88.	127.	93.	87.	122.	89.	105.	135.	87.
3604	86.	59.	58.	78.	57.	59.	87.	57.	62.	86.	59.	58.	82.	58.
3605	104.	76.	79.	110.	81.	85.	128.	84.	87.	122.	82.	104.	124.	79.
3606	142.	94.	90.	147.	93.	98.	148.	90.	101.	131.	88.	98.	132.	84.
3607	97.	64.	62.	105.	64.	62.	116.	97.	74.	142.	66.	70.	102.	76.
3608	108.	69.	76.	108.	79.	66.	107.	67.	70.	100.	33.	99.	119.	74.
3609	110.	74.	77.	93.	72.	90.	113.	76.	84.	114.	72.	85.	127.	76.
3610	131.	90.	89.	94.	89.	97.	136.	92.	101.	122.	93.	103.	140.	89.
3611	115.	77.	90.	117.	78.	81.	115.	82.	83.	115.	76.	76.	109.	73.
3612	149.	103.	107.	170.	109.	106.	157.	104.	96.	163.	107.	108.	154.	108.
3613	133.	94.	89.	117.	76.	88.	130.	90.	86.	113.	82.	75.	121.	73.
3614	150.	110.	105.	135.	104.	102.	153.	93.	129.	157.	117.	137.	158.	104.
3615	161.	103.	106.	121.	102.	109.	148.	93.	108.	139.	94.	114.	150.	106.
3616	119.	80.	75.	121.	72.	107.	116.	82.	101.	120.	89.	99.	125.	75.
3617	107.	69.	70.	107.	70.	71.	118.	74.	75.	108.	76.	80.	129.	65.
3618	115.	78.	84.	116.	81.	82.	115.	78.	83.	108.	75.	83.	126.	75.
3619	176.	119.	124.	147.	100.	120.	183.	120.	115.	153.	113.	115.	173.	109.
3620	175.	105.	116.	133.	107.	112.	163.	107.	101.	112.	105.	107.	175.	103.
3621	126.	80.	82.	55.	76.	83.	114.	75.	80.	93.	77.	81.	115.	76.
3622	141.	108.	87.	156.	98.	96.	156.	98.	106.	137.	98.	102.	161.	96.
3623	109.	78.	70.	107.	75.	75.	111.	73.	78.	102.	76.	76.	117.	67.
3624	148.	100.	109.	117.	91.	114.	149.	106.	105.	132.	103.	133.	150.	98.
3625	146.	88.	82.	116.	84.	93.	130.	90.	94.	116.	83.	92.	131.	89.
3626	133.	89.	85.	122.	83.	90.	126.	89.	86.	123.	92.	92.	144.	92.
3627	137.	96.	94.	135.	93.	97.	143.	105.	123.	111.	94.	102.	156.	93.
3628	108.	78.	73.	121.	70.	84.	103.	72.	78.	96.	75.	74.	107.	68.
3629	132.	92.	91.	139.	86.	103.	138.	113.	130.	199.	a	b	190.	a
3630	90.	62.	62.	87.	60.	58.	87.	56.	61.	89.	65.	64.	89.	59.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 3): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	66- 68	68- 71a	85b-87	87- 89	89- 92	92- 94	94- 96	96- 99	99-101	101-103	103-106	106-108	108-110
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY					
3601	78.	110.	73.	76.	107.	71.	84.	106.	71.	71.	113.	81.	75.
3602	95.	145.	84.	82.	129.	83.	85.	139.	82.	78.	140.	81.	86.
3603	86.	123.	96.	93.	148.	91.	82.	124.	86.	77.	124.	94.	83.
3604	60.	93.	66.	64.	93.	61.	64.	90.	57.	60.	104.	66.	63.
3605	97.	125.	88.	93.	139.	88.	86.	134.	72.	81.	141.	87.	85.
3606	101.	140.	96.	83.	119.	91.	82.	146.	80.	78.	148.	69.	77.
3607	110.	141.	115.	71.	115.	94.	94.	184.	84.	114.	131.	59.	92.
3608	71.	113.	67.	78.	108.	72.	76.	110.	72.	64.	92.	74.	73.
3609	76.	83.	7.	115.	147.	77.	87.	113.	69.	67.	120.	67.	70.
3610	81.	93.	100.	90.	128.	90.	87.	102.	73.	90.	143.	76.	85.
3611	80.	120.	83.	81.	121.	89.	88.	129.	84.	74.	c	68.	67.
3612	99.	149.	105.	105.	173.	105.	103.	166.	103.	102.	160.	96.	98.
3613	77.	113.	72.	74.	112.	79.	70.	108.	60.	74.	128.	66.	82.
3614	118.	140.	108.	110.	170.	108.	108.	166.	76.	107.	166.	78.	120.
3615	102.	122.	113.	108.	166.	104.	91.	112.	73.	78.	180.	72.	77.
3616	91.	122.	92.	96.	130.	87.	78.	132.	101.	96.	117.	85.	88.
3617	73.	103.	81.	74.	119.	67.	65.	107.	68.	65.	130.	63.	69.
3618	80.	117.	88.	83.	121.	72.	60.	107.	55.	72.	128.	85.	76.
3619	116.	149.	118.	121.	162.	83.	84.	169.	103.	85.	204.	93.	95.
3620	94.	130.	120.	108.	159.	93.	82.	185.	107.	85.	202.	111.	c
3621	76.	79.	85.	78.	116.	68.	55.	104.	74.	86.	139.	89.	73.
3622	100.	142.	109.	96.	155.	92.	83.	141.	100.	92.	169.	90.	96.
3623	76.	111.	84.	82.	118.	74.	78.	119.	73.	82.	124.	71.	83.
3624	104.	147.	133.	135.	166.	80.	115.	163.	83.	93.	176.	14.	109.
3625	93.	130.	127.	123.	189.	104.	79.	181.	82.	84.	146.	78.	99.
3626	93.	133.	FOUND DEAD ON DAY 80 OF STUDY										
3627	101.	141.	120.	109.	170.	81.	96.	166.	95.	83.	153.	82.	101.
3628	77.	113.	79.	73.	112.	76.	69.	112.	72.	70.	136.	69.	79.
3629	c	152.	d	c	138.	88.	129.	182.	112.	82.	141.	107.	96.
3630	60.	97.	64.	59.	96.	49.	60.	89.	59.	58.	93.	57.	55.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled water precluded the calculation of this value.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 4): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	110-113	113-115	115-117	117-120	120-122	122-124	124-127	127-129	129-131	131-134	134-136
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY			
3601	95.	63.	69.	85.	72.	a	86.	65.	70.	112.	
3602	118.	72.	89.	134.	91.	92.	121.	93.	88.	160.	
3603	105.	90.	82.	133.	106.	73.	114.	88.	113.	185.	
3604	90.	57.	62.	88.	68.	53.	a	64.	62.	104.	
3605	124.	88.	79.	137.	68.	84.	125.	83.	94.	149.	
3606	123.	67.	77.	120.	81.	75.	130.	73.	85.	120.	
3607	94.	68.	99.	142.	85.	65.	104.	62.	97.	119.	
3608	101.	57.	66.	80.	66.	56.	85.	69.	75.	107.	
3609	107.	58.	79.	107.	65.	59.	102.	74.	73.	108.	72.
3610	112.	70.	77.	125.	74.	77.	100.	70.	81.	132.	61.
3611	114.	75.	70.	103.	79.	86.	93.	82.	94.	138.	73.
3612	150.	92.	104.	163.	108.	91.	168.	103.	119.	180.	100.
3613	105.	56.	74.	90.	66.	3.	127.	58.	71.	118.	54.
3614	131.	98.	103.	138.	93.	92.	108.	116.	102.	160.	76.
3615	135.	97.	100.	122.	83.	78.	141.	62.	85.	117.	68.
3616	109.	75.	97.	135.	78.	94.	118.	92.	113.	122.	74.
3617	92.	52.	67.	94.	55.	68.	88.	50.	83.	112.	65.
3618	109.	75.	66.	118.	70.	74.	111.	69.	87.	116.	68.
3619	141.	87.	113.	159.	97.	116.	145.	93.	110.	231.	146.
3620	101.	87.	87.	138.	101.	100.	130.	81.	108.	177.	90.
3621	13.	46.	79.	97.	77.	79.	105.	50.	83.	125.	72.
3622	147.	83.	88.	141.	90.	94.	138.	88.	98.	148.	83.
3623	116.	70.	80.	111.	72.	82.	101.	54.	77.	118.	67.
3624	130.	68.	79.	162.	111.	84.	117.	83.	120.	165.	81.
3625	108.	69.	88.	129.	81.	94.	126.	83.	83.	146.	82.
3626	FOUND DEAD ON DAY 80 OF STUDY										
3627	118.	85.	90.	145.	92.	94.	144.	53.	42.	104.	74.
3628	97.	56.	65.	103.	72.	72.	92.	72.	75.	114.	63.
3629	127.	62.	89.	128.	76.	97.	108.	140.	93.	230.	a
3630	84.	54.	57.	89.	57.	57.	82.	53.	57.	94.	61.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 5): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY						
3631	62.	63.	120.	71.	67.	99.	64.	72.	96.	72.	67.	91.	65.	66.
3632	60.	66.	112.	73.	82.	121.	83.	84.	127.	88.	89.	117.	78.	87.
3633	59.	66.	115.	70.	70.	114.	83.	85.	154.	92.	79.	125.	87.	90.
3634	57.	65.	109.	72.	71.	103.	66.	73.	114.	74.	75.	111.	73.	76.
3635	59.	61.	106.	64.	69.	112.	74.	4.	152.	76.	77.	123.	77.	82.
3636	72.	72.	116.	82.	88.	132.	88.	88.	133.	97.	96.	137.	97.	98.
3637	71.	73.	111.	76.	80.	120.	80.	92.	124.	87.	89.	129.	87.	81.
3638	65.	69.	95.	76.	84.	136.	88.	88.	134.	96.	103.	156.	89.	106.
3639	64.	73.	114.	69.	76.	107.	70.	79.	108.	76.	78.	105.	74.	71.
3640	74.	83.	119.	78.	68.	115.	67.	78.	116.	74.	74.	106.	72.	71.
3641	63.	61.	104.	75.	79.	112.	81.	89.	128.	77.	76.	113.	80.	81.
3642	72.	65.	104.	66.	66.	109.	75.	85.	125.	86.	84.	132.	100.	95.
3643	73.	72.	119.	71.	77.	121.	88.	72.	128.	84.	94.	118.	85.	101.
3644	1.	98.	110.	69.	53.	122.	85.	88.	126.	87.	81.	115.	80.	82.
3645	66.	68.	109.	69.	63.	110.	75.	84.	110.	80.	73.	104.	74.	77.
3646	74.	83.	139.	86.	91.	142.	90.	94.	160.	111.	114.	156.	113.	120.
3647	63.	78.	125.	82.	82.	131.	89.	100.	149.	96.	99.	135.	96.	99.
3648	14.	101.	122.	81.	86.	112.	87.	89.	135.	85.	88.	119.	92.	81.
3649	76.	79.	132.	86.	98.	110.	93.	100.	152.	89.	92.	132.	79.	96.
3650	61.	80.	117.	79.	89.	128.	89.	93.	141.	88.	93.	114.	89.	90.
3651	56.	61.	104.	66.	75.	40.	79.	89.	127.	89.	89.	90.	94.	88.
3652	54.	93.	141.	86.	90.	127.	87.	83.	135.	90.	93.	128.	93.	98.
3653	63.	70.	102.	60.	61.	96.	56.	66.	91.	61.	59.	98.	67.	61.
3654	75.	83.	131.	93.	99.	126.	104.	106.	185.	113.	117.	114.	100.	92.
3655	77.	93.	119.	80.	94.	122.	86.	90.	144.	97.	95.	132.	94.	92.
3656	69.	73.	105.	67.	76.	107.	74.	82.	117.	74.	81.	107.	74.	82.
3657	70.	83.	132.	87.	95.	141.	97.	108.	151.	88.	92.	61.	55.	98.
3658	66.	67.	104.	70.	69.	107.	65.	71.	107.	69.	57.	114.	77.	85.
3659	64.	66.	105.	67.	79.	117.	79.	86.	125.	86.	91.	124.	90.	95.
3660	7.	81.	136.	93.	99.	136.	89.	95.	144.	92.	93.	130.	93.	95.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 6): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY						
3631	90.	66.	65.	92.	68.	71.	91.	60.	66.	87.	66.	69.	86.	56.
3632	120.	81.	81.	122.	85.	85.	117.	84.	88.	121.	83.	85.	125.	81.
3633	122.	84.	82.	124.	78.	86.	113.	76.	84.	118.	70.	77.	103.	64.
3634	104.	74.	63.	98.	66.	76.	104.	73.	67.	105.	68.	68.	103.	63.
3635	120.	79.	79.	65.	66.	65.	99.	78.	83.	93.	74.	79.	109.	70.
3636	135.	90.	97.	133.	99.	104.	138.	105.	108.	145.	91.	139.	158.	101.
3637	122.	83.	107.	143.	100.	102.	149.	102.	125.	128.	83.	105.	147.	92.
3638	154.	110.	88.	67.	107.	112.	169.	105.	110.	144.	100.	90.	147.	90.
3639	104.	69.	72.	109.	72.	77.	100.	68.	74.	103.	67.	67.	106.	65.
3640	110.	71.	69.	65.	63.	67.	104.	69.	78.	105.	67.	72.	106.	67.
3641	117.	71.	81.	106.	79.	78.	116.	83.	86.	112.	74.	82.	115.	74.
3642	134.	86.	84.	113.	91.	97.	133.	87.	96.	129.	95.	103.	141.	89.
3643	118.	77.	84.	108.	78.	91.	110.	73.	87.	112.	74.	80.	114.	72.
3644	116.	82.	75.	99.	73.	83.	106.	73.	79.	102.	76.	78.	106.	68.
3645	97.	73.	65.	53.	68.	73.	92.	64.	67.	61.	62.	67.	94.	61.
3646	154.	99.	104.	166.	98.	110.	137.	104.	120.	149.	106.	106.	156.	100.
3647	141.	78.	98.	130.	89.	100.	136.	94.	104.	124.	87.	94.	140.	90.
3648	127.	80.	78.	119.	82.	91.	125.	68.	73.	126.	93.	94.	144.	105.
3649	146.	95.	105.	144.	97.	108.	159.	88.	91.	127.	98.	87.	130.	91.
3650	134.	92.	84.	107.	91.	111.	147.	109.	111.	114.	105.	116.	137.	100.
3651	146.	95.	103.	69.	80.	119.	135.	88.	105.	132.	89.	96.	138.	83.
3652	132.	89.	82.	123.	91.	90.	117.	85.	88.	116.	87.	88.	128.	74.
3653	88.	56.	55.	95.	56.	58.	90.	65.	60.	94.	55.	60.	91.	56.
3654	131.	98.	127.	133.	88.	102.	178.	112.	152.	150.	111.	112.	162.	99.
3655	134.	100.	99.	121.	95.	105.	140.	93.	98.	136.	109.	122.	136.	84.
3656	129.	122.	1.	141.	105.	118.	136.	112.	112.	135.	89.	74.	102.	87.
3657	147.	87.	91.	51.	88.	117.	156.	92.	115.	116.	110.	113.	160.	102.
3658	121.	73.	69.	117.	71.	74.	103.	69.	79.	105.	76.	72.	110.	71.
3659	134.	98.	103.	134.	92.	100.	134.	90.	97.	121.	90.	89.	134.	79.
3660	149.	91.	81.	135.	96.	103.	140.	91.	105.	125.	99.	103.	151.	94.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 7): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	66- 68	68- 71a	85b-87	87- 89	89- 92	92- 94	94- 96	96- 99	99-101	101-103	103-106	106-108	108-110
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY					
3631	61.	87.	69.	67.	95.	72.	67.	109.	64.	75.	101.	63.	77.
3632	86.	119.	88.	82.	115.	78.	80.	126.	91.	72.	124.	71.	81.
3633	71.	104.	86.	86.	120.	75.	79.	99.	67.	85.	112.	71.	67.
3634	57.	96.	81.	76.	105.	71.	59.	98.	64.	70.	95.	76.	73.
3635	67.	86.	73.	72.	109.	74.	88.	59.	56.	67.	120.	68.	67.
3636	76.	148.	99.	109.	134.	74.	91.	137.	57.	84.	144.	89.	82.
3637	101.	121.	109.	113.	160.	82.	122.	138.	76.	109.	203.	96.	95.
3638	76.	140.	107.	93.	132.	81.	97.	126.	86.	86.	104.	72.	111.
3639	64.	80.	68.	67.	98.	60.	65.	95.	63.	60.	130.	66.	63.
3640	64.	76.	73.	69.	109.	62.	73.	78.	63.	73.	94.	75.	66.
3641	79.	106.	78.	77.	109.	74.	77.	112.	79.	76.	129.	71.	86.
3642	85.	124.	83.	93.	118.	89.	86.	130.	85.	86.	152.	80.	90.
3643	72.	100.	69.	61.	97.	66.	73.	104.	62.	74.	97.	66.	71.
3644	92.	112.	73.	73.	112.	80.	81.	111.	73.	74.	112.	68.	100.
3645	68.	76.	73.	64.	102.	71.	68.	95.	62.	67.	105.	65.	70.
3646	104.	139.	93.	107.	150.	106.	80.	139.	90.	100.	126.	88.	105.
3647	86.	114.	97.	95.	131.	87.	80.	130.	77.	73.	122.	79.	77.
3648	80.	103.	99.	83.	127.	53.	88.	136.	48.	77.	153.	95.	93.
3649	103.	134.	93.	103.	150.	78.	90.	149.	76.	79.	156.	75.	91.
3650	81.	121.	123.	108.	110.	38.	89.	166.	84.	72.	148.	90.	79.
3651	89.	61.	90.	90.	132.	59.	54.	123.	62.	72.	134.	82.	76.
3652	80.	115.	88.	84.	121.	71.	75.	113.	78.	74.	133.	79.	82.
3653	63.	84.	78.	67.	98.	55.	68.	100.	59.	66.	93.	59.	65.
3654	107.	129.	93.	115.	146.	90.	104.	137.	93.	94.	160.	96.	81.
3655	99.	97.	89.	84.	118.	72.	91.	124.	76.	75.	119.	79.	75.
3656	98.	149.	89.	94.	114.	58.	41.	138.	71.	61.	116.	62.	67.
3657	111.	117.	92.	118.	148.	57.	66.	128.	65.	87.	142.	79.	95.
3658	72.	104.	68.	67.	108.	63.	64.	111.	69.	72.	131.	61.	64.
3659	90.	120.	93.	90.	133.	71.	80.	124.	81.	76.	131.	64.	81.
3660	2.	189.	105.	101.	151.	88.	99.	149.	97.	94.	151.	86.	96.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 8): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	110-113	113-115	115-117	117-120	120-122	122-124	124-127	127-129	129-131	131-134	134-136
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY			
3631	94.	55.	62.	88.	61.	69.	93.	62.	68.	107.	
3632	96.	66.	75.	123.	86.	76.	115.	78.	61.	142.	
3633	114.	65.	72.	106.	62.	69.	102.	71.	92.	118.	
3634	99.	67.	60.	89.	68.	64.	102.	80.	41.	118.	
3635	90.	59.	59.	8?.	74.	63.	104.	73.	94.	105.	
3636	112.	83.	71.	11?.	76.	91.	126.	84.	80.	121.	
3637	154.	101.	81.	117.	94.	97.	121.	88.	82.	159.	
3638	132.	66.	96.	124.	91.	93.	120.	91.	78.	128.	
3639	90.	52.	61.	85.	60.	62.	89.	60.	62.	87.	51.
3640	97.	56.	66.	84.	63.	58.	82.	60.	53.	103.	56.
3641	104.	a	80.	102.	68.	70.	105.	72.	80.	119.	71.
3642	133.	68.	104.	119.	83.	78.	95.	82.	88.	104.	80.
3643	82.	55.	54.	86.	61.	71.	94.	67.	65.	99.	52.
3644	110.	60.	101.	118.	93.	63.	91.	62.	72.	103.	38.
3645	105.	59.	57.	78.	59.	57.	94.	67.	63.	102.	51.
3646	200.	86.	86.	139.	96.	93.	136.	88.	105.	172.	96.
3647	111.	63.	66.	121.	70.	70.	101.	59.	73.	100.	65.
3648	95.	64.	89.	130.	2.	56.	163.	109.	110.	139.	88.
3649	88.	60.	81.	94.	58.	66.	108.	67.	72.	119.	72.
3650	85.	61.	93.	118.	75.	84.	120.	79.	84.	128.	73.
3651	38.	2.	102.	127.	84.	74.	120.	69.	81.	126.	72.
3652	95.	69.	68.	96.	76.	74.	102.	55.	79.	115.	62.
3653	93.	55.	71.	82.	57.	68.	92.	47.	62.	106.	52.
3654	99.	77.	71.	108.	78.	89.	106.	79.	87.	131.	71.
3655	101.	72.	80.	107.	81.	70.	100.	63.	68.	107.	64.
3656	99.	61.	66.	106.	62.	69.	113.	33.	68.	110.	70.
3657	51.	61.	86.	123.	77.	71.	114.	62.	65.	123.	97.
3658	91.	58.	59.	90.	63.	64.	97.	63.	70.	107.	56.
3659	118.	68.	80.	118.	78.	75.	102.	68.	79.	119.	76.
3660	136.	78.	101.	134.	92.	102.	131.	77.	8.	195.	88.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 9): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY						
3661	44.	58.	109.	72.	66.	117.	75.	76.	114.	98.	84.	120.	84.	86.
3662	79.	85.	154.	90.	95.	141.	95.	102.	141.	93.	88.	136.	90.	92.
3663	65.	73.	131.	81.	67.	106.	66.	68.	110.	70.	68.	98.	64.	66.
3664	87.	94.	162.	98.	80.	131.	86.	83.	130.	93.	89.	128.	92.	86.
3665	69.	73.	123.	78.	57.	108.	73.	83.	124.	78.	47.	67.	54.	71.
3666	79.	85.	137.	86.	90.	141.	98.	97.	136.	93.	93.	136.	99.	92.
3667	79.	85.	144.	98.	86.	151.	111.	106.	152.	108.	102.	144.	97.	93.
3668	69.	73.	114.	73.	73.	127.	86.	85.	128.	97.	102.	146.	91.	93.
3669	58.	62.	97.	70.	56.	96.	64.	67.	97.	65.	60.	94.	64.	68.
3670	72.	74.	123.	84.	48.	107.	94.	91.	134.	99.	94.	135.	88.	92.
3671	59.	64.	102.	70.	73.	113.	77.	86.	124.	80.	83.	118.	79.	84.
3672	83.	91.	146.	90.	89.	141.	93.	97.	137.	83.	91.	124.	89.	86.
3673	65.	67.	114.	75.	73.	110.	77.	75.	112.	75.	68.	101.	71.	72.
3674	79.	73.	123.	85.	77.	155.	107.	125.	197.	122.	110.	174.	121.	123.
3675	77.	76.	124.	81.	64.	129.	86.	89.	141.	92.	98.	135.	91.	101.
3676	67.	69.	106.	70.	77.	116.	87.	90.	133.	90.	90.	120.	83.	87.
3677	75.	89.	134.	82.	90.	126.	87.	90.	135.	86.	86.	128.	91.	85.
3678	69.	74.	121.	78.	90.	131.	90.	93.	145.	89.	87.	119.	92.	92.
3679	7.	92.	118.	71.	76.	89.	87.	88.	138.	96.	94.	92.	92.	103.
3680	64.	69.	110.	71.	75.	62.	81.	83.	123.	83.	86.	116.	76.	77.
3681	87.	77.	115.	73.	79.	27.	66.	93.	110.	107.	100.	52.	96.	95.
3682	77.	97.	125.	85.	87.	135.	91.	106.	169.	113.	120.	161.	108.	115.
3683	92.	110.	160.	106.	113.	157.	107.	128.	173.	129.	136.	168.	128.	146.
3684	74.	81.	123.	81.	85.	135.	98.	102.	146.	101.	107.	138.	99.	95.
3685	63.	74.	108.	76.	77.	125.	85.	85.	131.	90.	94.	124.	88.	87.
3686	67.	75.	113.	82.	88.	142.	102.	107.	148.	97.	100.	132.	99.	97.
3687	65.	69.	109.	70.	78.	42.	18.	65.	122.	80.	9.	62.	65.	84.
3688	69.	80.	116.	78.	85.	136.	92.	99.	154.	93.	97.	149.	103.	111.
3689	63.	69.	105.	70.	73.	107.	73.	77.	112.	73.	83.	111.	74.	73.
3690	64.	72.	107.	74.	80.	119.	82.	87.	120.	77.	79.	104.	70.	70.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 10): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY						
3661	123.	101.	76.	104.	96.	76.	125.	77.	72.	119.	80.	91.	110.	68.
3662	133.	92.	95.	149.	94.	104.	145.	94.	94.	152.	95.	99.	141.	86.
3663	101.	70.	68.	101.	74.	79.	113.	70.	79.	108.	84.	60.	98.	78.
3664	128.	88.	80.	116.	88.	95.	116.	102.	82.	127.	91.	93.	141.	97.
3665	115.	71.	76.	101.	73.	77.	117.	78.	81.	115.	78.	81.	108.	74.
3666	138.	99.	89.	118.	87.	95.	114.	89.	89.	112.	81.	88.	113.	82.
3667	143.	99.	98.	144.	104.	105.	142.	95.	99.	127.	103.	105.	134.	91.
3668	140.	91.	96.	144.	86.	90.	133.	87.	96.	133.	91.	68.	132.	83.
3669	92.	63.	63.	87.	56.	63.	91.	69.	68.	92.	66.	68.	104.	71.
3670	131.	31.	100.	145.	85.	98.	124.	79.	84.	120.	77.	102.	153.	75.
3671	117.	79.	83.	121.	83.	91.	119.	79.	89.	116.	79.	79.	112.	71.
3672	124.	83.	73.	132.	85.	95.	137.	88.	84.	127.	92.	87.	124.	91.
3673	100.	68.	65.	96.	66.	66.	97.	66.	70.	96.	63.	70.	99.	65.
3674	180.	122.	142.	181.	123.	131.	188.	113.	137.	155.	129.	116.	194.	128.
3675	138.	107.	94.	17.	91.	103.	145.	94.	111.	147.	96.	112.	139.	87.
3676	128.	80.	87.	63.	97.	100.	138.	98.	108.	142.	97.	95.	146.	87.
3677	125.	83.	87.	113.	80.	98.	126.	82.	94.	119.	97.	102.	135.	90.
3678	119.	81.	86.	122.	79.	84.	129.	86.	92.	117.	86.	93.	131.	80.
3679	136.	90.	93.	138.	94.	116.	141.	97.	1.	138.	92.	105.	156.	90.
3680	117.	80.	70.	78.	74.	60.	111.	76.	85.	109.	72.	82.	108.	72.
3681	137.	89.	99.	139.	133.	99.	109.	103.	92.	107.	110.	128.	a	121.
3682	154.	121.	105.	142.	101.	126.	167.	125.	140.	201.	123.	121.	201.	111.
3683	174.	117.	101.	160.	126.	150.	164.	118.	128.	160.	117.	124.	167.	109.
3684	137.	96.	98.	145.	98.	106.	134.	96.	108.	141.	102.	89.	147.	103.
3685	126.	82.	79.	109.	80.	91.	122.	84.	90.	129.	84.	97.	132.	74.
3686	139.	92.	93.	126.	97.	110.	155.	96.	106.	147.	113.	117.	169.	100.
3687	133.	95.	105.	15.	103.	102.	151.	95.	123.	105.	127.	113.	151.	109.
3688	155.	110.	95.	150.	97.	110.	144.	98.	113.	144.	106.	110.	150.	86.
3689	114.	74.	75.	106.	69.	74.	105.	66.	78.	103.	74.	77.	116.	70.
3690	98.	72.	66.	96.	68.	70.	96.	67.	67.	88.	68.	63.	92.	61.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 11): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	66- 68	68- 71a	85b-87	87- 89	89- 92	92- 94	94- 96	96- 99	99-101	101-103	103-106	106-108	108-110
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY					
3661	72.	108.	76.	57.	92.	61.	68.	80.	55.	63.	86.	57.	63.
3662	101.	155.	110.	105.	156.	90.	96.	167.	86.	88.	140.	82.	99.
3663	58.	102.	78.	86.	107.	60.	76.	99.	61.	66.	135.	62.	67.
3664	95.	130.	128.	98.	178.	87.	94.	126.	84.	80.	129.	83.	79.
3665	76.	116.	105.	99.	142.	100.	95.	120.	89.	101.	132.	90.	90.
3666	76.	106.	88.	84.	123.	79.	75.	116.	76.	74.	108.	73.	76.
3667	102.	129.	105.	102.	131.	101.	82.	134.	85.	74.	152.	88.	96.
3668	93.	124.	99.	86.	136.	97.	82.	121.	82.	88.	133.	69.	86.
3669	73.	94.	78.	77.	106.	72.	67.	93.	72.	79.	115.	59.	65.
3670	81.	103.	79.	92.	124.	73.	92.	107.	76.	73.	131.	66.	83.
3671	77.	115.	81.	77.	115.	82.	79.	116.	77.	77.	113.	76.	74.
3672	92.	142.	98.	98.	139.	88.	94.	141.	91.	83.	154.	81.	77.
3673	67.	97.	74.	96.	131.	91.	64.	92.	65.	73.	142.	87.	102.
3674	107.	c	129.	124.	199.	125.	125.	144.	116.	103.	169.	119.	133.
3675	116.	95.	101.	100.	130.	100.	87.	106.	82.	120.	161.	87.	100.
3676	93.	142.	100.	89.	134.	90.	87.	134.	89.	80.	138.	79.	88.
3677	100.	135.	97.	91.	155.	99.	97.	134.	82.	74.	144.	67.	89.
3678	84.	118.	83.	81.	123.	69.	72.	116.	70.	75.	128.	74.	81.
3679	97.	113.	90.	95.	134.	86.	78.	132.	77.	70.	144.	76.	77.
3680	67.	97.	87.	78.	117.	74.	74.	113.	69.	73.	120.	72.	73.
3681	123.	86.	137.	103.	135.	68.	99.	139.	71.	77.	97.	100.	85.
3682	121.	158.	125.	151.	173.	109.	110.	162.	100.	125.	212.	124.	114.
3683	125.	160.	113.	116.	163.	106.	105.	157.	101.	111.	168.	84.	96.
3684	106.	146.	99.	86.	148.	95.	99.	140.	100.	90.	144.	103.	94.
3685	94.	134.	91.	96.	143.	68.	87.	138.	76.	80.	150.	80.	85.
3686	103.	139.	126.	103.	148.	87.	107.	172.	101.	113.	156.	88.	106.
3687	124.	97.	109.	100.	165.	54.	48.	114.	52.	84.	140.	94.	86.
3688	81.	144.	91.	107.	158.	99.	93.	142.	86.	108.	142.	70.	93.
3689	74.	108.	71.	78.	117.	71.	69.	105.	75.	66.	105.	66.	84.
3690	66.	86.	74.	73.	102.	55.	65.	99.	65.	65.	105.	67.	70.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 12): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	110-113	113-115	115-117	117-120	120-122	122-124	124-127	127-129	129-131	131-134	134-136
RAT #	DOSAGE GROUP 3						3.0 MG/KG/DAY				
3661	80.	57.	64.	78.	64.	59.	78.	57.	57.	89.	
3662	149.	80.	104.	125.	88.	96.	133.	96.	109.	160.	
3663	101.	66.	64.	96.	64.	34.	98.	63.	54.	112.	
3664	a	73.	75.	109.	81.	91.	114.	79.	84.	110.	
3665	116.	72.	85.	103.	70.	74.	122.	72.	95.	129.	
3666	87.	72.	71.	103.	82.	71.	107.	76.	83.	147.	
3667	113.	70.	76.	131.	95.	88.	122.	84.	85.	158.	
3668	139.	78.	75.	123.	86.	74.	110.	78.	79.	129.	67.
3669	94.	60.	63.	95.	73.	56.	103.	72.	64.	131.	64.
3670	114.	61.	83.	119.	73.	83.	124.	74.	86.	131.	48.
3671	111.	68.	66.	95.	68.	80.	100.	69.	62.	113.	56.
3672	124.	69.	85.	122.	89.	93.	141.	59.	124.	156.	a
3673	92.	66.	50.	90.	92.	86.	95.	68.	74.	117.	58.
3674	138.	104.	137.	211.	111.	119.	205.	109.	152.	234.	93.
3675	116.	67.	82.	129.	96.	74.	130.	93.	123.	153.	73.
3676	124.	69.	86.	122.	83.	80.	112.	77.	85.	134.	75.
3677	132.	64.	84.	106.	77.	72.	109.	76.	76.	116.	61.
3678	120.	58.	63.	99.	71.	71.	101.	63.	83.	120.	60.
3679	93.	58.	73.	120.	67.	69.	110.	61.	74.	121.	63.
3680	76.	57.	65.	116.	66.	71.	117.	82.	82.	146.	78.
3681	15.	48.	58.	95.	86.	71.	90.	69.	64.	110.	68.
3682	144.	104.	108.	147.	108.	118.	140.	97.	105.	208.	93.
3683	148.	78.	85.	137.	88.	101.	145.	95.	112.	175.	86.
3684	115.	92.	81.	128.	97.	89.	137.	89.	90.	141.	87.
3685	120.	68.	81.	126.	80.	82.	115.	83.	82.	148.	68.
3686	141.	86.	121.	172.	89.	97.	155.	88.	96.	156.	96.
3687	71.	84.	96.	125.	66.	83.	115.	50.	22.	123.	108.
3688	123.	82.	90.	118.	88.	98.	121.	70.	104.	151.	70.
3689	100.	59.	66.	96.	64.	68.	93.	68.	65.	119.	52.
3690	92.	55.	66.	81.	71.	70.	88.	73.	82.	110.	76.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 13): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY						
3691	59.	61.	112.	68.	67.	104.	73.	76.	107.	75.	79.	115.	77.	76.
3692	63.	67.	114.	75.	82.	127.	90.	77.	125.	83.	93.	121.	85.	81.
3693	76.	81.	127.	89.	82.	134.	90.	88.	137.	87.	85.	127.	92.	87.
3694	63.	72.	124.	81.	79.	113.	78.	77.	108.	71.	66.	105.	67.	70.
3695	64.	71.	111.	73.	42.	96.	73.	79.	122.	78.	74.	113.	80.	71.
3696	72.	83.	122.	85.	81.	126.	88.	90.	129.	89.	88.	129.	88.	89.
3697	62.	61.	97.	65.	64.	108.	71.	76.	112.	77.	74.	113.	73.	71.
3698	56.	79.	129.	86.	77.	128.	79.	86.	139.	87.	81.	129.	88.	80.
3699	79.	83.	133.	88.	74.	127.	94.	90.	133.	94.	93.	139.	90.	88.
3700	73.	84.	118.	86.	42.	93.	81.	79.	117.	76.	71.	107.	75.	80.
3701	67.	71.	115.	78.	82.	122.	84.	86.	127.	89.	84.	122.	78.	80.
3702	76.	77.	121.	82.	83.	130.	91.	89.	136.	93.	87.	119.	82.	79.
3703	75.	74.	110.	82.	78.	125.	88.	85.	119.	87.	80.	120.	83.	72.
3704	58.	63.	97.	69.	61.	101.	71.	69.	102.	68.	55.	87.	65.	65.
3705	59.	62.	92.	62.	37.	92.	66.	62.	118.	76.	81.	118.	84.	72.
3706	65.	75.	107.	72.	75.	118.	70.	85.	121.	81.	88.	117.	77.	91.
3707	60.	a	105.	71.	71.	98.	66.	70.	99.	73.	63.	94.	62.	67.
3708	69.	74.	114.	74.	75.	116.	83.	85.	135.	93.	95.	130.	90.	90.
3709	72.	77.	128.	87.	90.	111.	88.	92.	147.	93.	95.	116.	97.	92.
3710	74.	80.	121.	85.	80.	118.	77.	79.	115.	78.	77.	123.	69.	79.
3711	65.	73.	110.	73.	82.	105.	81.	55.	121.	75.	78.	43.	83.	77.
3712	69.	74.	112.	73.	79.	120.	86.	88.	133.	88.	77.	118.	86.	84.
3713	65.	66.	104.	75.	77.	118.	75.	83.	127.	81.	86.	119.	77.	78.
3714	63.	70.	108.	71.	75.	121.	80.	80.	121.	83.	83.	109.	78.	77.
3715	65.	71.	115.	79.	85.	100.	84.	87.	134.	86.	82.	93.	88.	81.
3716	64.	68.	105.	74.	76.	54.	78.	86.	123.	83.	94.	84.	85.	93.
3717	74.	76.	111.	87.	76.	76.	92.	86.	79.	101.	89.	59.	105.	97.
3718	66.	74.	113.	70.	70.	100.	72.	69.	101.	71.	69.	96.	78.	71.
3719	70.	79.	123.	85.	85.	122.	79.	87.	120.	73.	71.	105.	72.	72.
3720	63.	72.	113.	75.	78.	110.	81.	76.	119.	72.	84.	105.	74.	82.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 14): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY						
3691	112.	68.	76.	116.	75.	74.	107.	73.	70.	104.	68.	66.	98.	62.
3692	125.	84.	88.	122.	88.	95.	131.	84.	90.	131.	81.	91.	140.	84.
3693	130.	86.	98.	118.	93.	91.	124.	91.	87.	130.	89.	90.	132.	81.
3694	96.	62.	66.	96.	64.	68.	92.	63.	60.	90.	61.	66.	85.	61.
3695	98.	70.	69.	51.	71.	75.	104.	69.	72.	107.	68.	75.	109.	68.
3696	124.	75.	88.	120.	83.	77.	122.	82.	79.	115.	77.	69.	120.	70.
3697	100.	69.	68.	103.	75.	78.	105.	76.	72.	98.	72.	79.	114.	72.
3698	123.	76.	60.	MORIBUND SACRIFICED ON DAY 40 OF STUDY										
3699	136.	91.	88.	132.	95.	99.	148.	100.	101.	135.	96.	98.	148.	94.
3700	104.	74.	77.	79.	65.	71.	104.	70.	79.	107.	70.	71.	104.	72.
3701	116.	77.	82.	116.	80.	85.	116.	72.	68.	119.	78.	84.	119.	82.
3702	116.	82.	80.	116.	96.	106.	130.	82.	98.	114.	82.	89.	109.	86.
3703	112.	76.	78.	117.	75.	74.	114.	81.	73.	a	87.	85.	117.	79.
3704	87.	63.	58.	76.	67.	60.	82.	56.	60.	77.	53.	61.	90.	53.
3705	110.	69.	67.	86.	72.	85.	113.	72.	88.	116.	70.	84.	113.	73.
3706	124.	73.	71.	111.	67.	74.	123.	71.	79.	120.	84.	88.	122.	91.
3707	90.	69.	63.	93.	64.	70.	108.	67.	70.	94.	61.	70.	99.	71.
3708	139.	95.	93.	122.	94.	100.	139.	99.	97.	122.	95.	89.	151.	92.
3709	160.	106.	102.	125.	108.	42.	165.	59.	a	a	a	b	a	a
3710	113.	79.	83.	108.	80.	92.	134.	89.	96.	108.	83.	91.	139.	90.
3711	109.	69.	77.	65.	69.	80.	110.	70.	76.	36.	68.	72.	109.	47.
3712	119.	89.	83.	146.	92.	87.	119.	81.	113.	123.	83.	82.	128.	76.
3713	122.	76.	79.	104.	76.	78.	113.	74.	82.	110.	76.	79.	111.	78.
3714	108.	69.	52.	111.	68.	83.	114.	77.	86.	116.	80.	84.	118.	77.
3715	111.	74.	83.	98.	76.	79.	113.	76.	96.	101.	83.	85.	118.	77.
3716	120.	84.	106.	72.	76.	79.	111.	72.	87.	94.	78.	89.	116.	77.
3717	173.	101.	66.	53.	136.	147.	180.	87.	118.	66.	75.	125.	159.	105.
3718	99.	67.	66.	91.	66.	73.	102.	78.	78.	101.	84.	76.	117.	70.
3719	102.	66.	65.	99.	69.	69.	103.	69.	71.	98.	65.	70.	103.	66.
3720	109.	72.	78.	104.	76.	79.	111.	72.	88.	107.	72.	75.	108.	71.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 15): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	66- 68	68- 71a	85b-87	87- 89	89- 92	92- 94	94- 96	96- 99	99-101	101-103	103-106	106-108	108-110
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY					
3691	77.	98.	72.	75.	97.	64.	60.	89.	65.	58.	103.	57.	55.
3692	92.	127.	c	c	239.	93.	148.	226.	110.	88.	134.	97.	103.
3693	85.	124.	88.	92.	133.	81.	80.	129.	86.	91.	130.	88.	77.
3694	61.	81.	68.	64.	85.	53.	55.	87.	56.	56.	98.	55.	49.
3695	66.	74.	79.	71.	109.	64.	63.	90.	69.	74.	100.	78.	62.
3696	65.	117.	85.	90.	116.	75.	78.	108.	74.	69.	133.	63.	67.
3697	75.	101.	76.	79.	104.	67.	70.	104.	64.	64.	109.	66.	68.
3698	MORIBUND SACRIFICED ON DAY 40 OF STUDY												
3699	85.	136.	98.	100.	158.	95.	94.	165.	97.	91.	149.	99.	98.
3700	70.	84.	77.	75.	112.	74.	71.	75.	68.	75.	110.	74.	70.
3701	80.	103.	86.	86.	119.	64.	66.	109.	69.	70.	146.	71.	72.
3702	69.	107.	85.	97.	128.	85.	76.	140.	76.	83.	132.	74.	86.
3703	74.	118.	92.	90.	131.	96.	90.	132.	82.	95.	170.	92.	95.
3704	58.	79.	57.	55.	90.	65.	58.	98.	54.	54.	146.	55.	60.
3705	72.	78.	79.	66.	103.	76.	88.	113.	84.	72.	131.	70.	70.
3706	85.	130.	78.	83.	135.	92.	100.	168.	94.	79.	140.	90.	97.
3707	66.	91.	57.	62.	85.	50.	57.	99.	55.	65.	91.	53.	58.
3708	89.	132.	105.	103.	155.	78.	94.	141.	80.	83.	149.	83.	97.
3709	d	c	c	c	c	d	c	c	c	99.	214.	c	c
3710	96.	132.	86.	78.	123.	75.	72.	124.	72.	70.	115.	70.	78.
3711	68.	59.	83.	86.	123.	63.	64.	117.	52.	65.	113.	66.	68.
3712	90.	119.	84.	83.	123.	85.	83.	139.	84.	84.	138.	91.	79.
3713	74.	111.	80.	87.	129.	73.	73.	112.	71.	72.	141.	79.	78.
3714	71.	103.	83.	80.	123.	65.	64.	112.	64.	67.	121.	72.	63.
3715	83.	90.	97.	86.	119.	48.	79.	110.	75.	80.	128.	3.	111.
3716	84.	85.	79.	80.	110.	38.	46.	111.	68.	71.	105.	56.	63.
3717	78.	41.	99.	106.	117.	38.	49.	98.	45.	75.	99.	94.	79.
3718	70.	108.	71.	73.	106.	85.	76.	108.	95.	83.	114.	80.	79.
3719	66.	105.	76.	68.	110.	76.	73.	124.	79.	82.	142.	76.	76.
3720	72.	105.	81.	88.	122.	58.	73.	106.	74.	76.	124.	71.	77.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled water precluded the calculation of this value.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B18 (PAGE 16): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	110-113	113-115	115-117	117-120	120-122	122-124	124-127	127-129	129-131	131-134	134-136
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY			
3691	77.	53.	59.	82.	52.	60.	78.	59.	55.	92.	
3692	217.	103.	65.	144.	151.	68.	102.	168.	71.	165.	
3693	109.	75.	87.	116.	88.	80.	114.	78.	83.	128.	
3694	73.	42.	55.	76.	58.	52.	77.	48.	58.	89.	
3695	80.	63.	66.	91.	69.	70.	90.	70.	67.	94.	
3696	116.	59.	68.	123.	73.	63.	97.	62.	73.	90.	
3697	98.	57.	64.	93.	59.	62.	90.	63.	72.	98.	
3698	MORIBUND SACRIFICED ON DAY 40 OF STUDY										
3699	131.	73.	97.	123.	88.	87.	133.	92.	87.	158.	73.
3700	111.	64.	76.	96.	74.	66.	100.	77.	76.	108.	54.
3701	104.	66.	66.	83.	82.	64.	107.	78.	69.	120.	81.
3702	109.	76.	66.	101.	80.	72.	113.	80.	78.	130.	69.
3703	110.	91.	1.	159.	101.	95.	134.	108.	111.	146.	92.
3704	88.	49.	48.	92.	50.	60.	80.	62.	56.	122.	55.
3705	101.	66.	58.	95.	71.	70.	101.	88.	88.	135.	56.
3706	122.	63.	79.	118.	70.	80.	113.	78.	90.	143.	89.
3707	84.	55.	64.	92.	59.	61.	85.	67.	52.	107.	61.
3708	136.	71.	80.	129.	81.	81.	120.	73.	83.	123.	82.
3709	244.	a	b	223.	150.	124.	238.	a	a	a	a
3710	84.	66.	70.	108.	69.	79.	100.	76.	74.	121.	75.
3711	30.	51.	63.	89.	61.	66.	102.	28.	68.	100.	55.
3712	115.	68.	81.	109.	79.	90.	113.	81.	81.	163.	81.
3713	109.	69.	71.	111.	75.	71.	107.	81.	70.	113.	72.
3714	96.	61.	62.	93.	66.	77.	107.	66.	29.	132.	69.
3715	125.	72.	75.	112.	70.	85.	116.	70.	83.	118.	70.
3716	79.	55.	62.	93.	63.	73.	86.	49.	77.	107.	57.
3717	64.	54.	77.	92.	60.	58.	83.	61.	69.	82.	70.
3718	79.	66.	57.	87.	79.	74.	92.	74.	65.	113.	87.
3719	108.	65.	62.	101.	62.	65.	98.	63.	73.	118.	68.
3720	95.	53.	69.	98.	64.	67.	92.	61.	70.	119.	63.

DAYS = DAYS OF STUDY
ALL WEIGHTS ARE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Value could not be calculated.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 1): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a	85b-92	92- 99	99-106	106-113
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY						
3601	151.	169.	173.	178.	182.	167.	173.	177.	175.	174.	180.	174.	179.	183.
3602	183.	195.	210.	211.	211.	211.	217.	209.	210.	208.	211.	211.	209.	210.
3603	187.	196.	199.	201.	201.	200.	204.	196.	202.	222.	210.	208.	193.	198.
3604	173.	179.	170.	164.	172.	171.	169.	169.	167.	173.	c	196.	189.	187.
3605	162.	182.	178.	171.	163.	160.	169.	168.	180.	166.	186.	187.	177.	178.
3606	192.	202.	203.	201.	201.	201.	200.	c	216.	c	213.	209.	207.	201.
3607	172.	187.	185.	178.	181.	185.	181.	187.	c	c	c	c	196.	185.
3608	198.	233.	224.	218.	222.	231.	220.	217.	217.	219.	230.	235.	224.	230.
3609	164.	189.	200.	195.	193.	191.	185.	184.	189.	194.	209.	190.	188.	188.
3610	192.	202.	211.	209.	221.	c	228.	221.	236.	238.	228.	235.	225.	219.
3611	168.	188.	182.	186.	175.	186.	183.	188.	186.	189.	183.	193.	c	202.
3612	139.	201.	208.	214.	207.	215.	212.	207.	206.	199.	208.	217.	222.	206.
3613	189.	176.	180.	181.	199.	193.	190.	189.	200.	192.	191.	205.	201.	195.
3614	185.	187.	188.	186.	188.	195.	188.	188.	198.	188.	192.	200.	192.	184.
3615	181.	198.	200.	192.	190.	197.	192.	189.	186.	185.	181.	195.	182.	177.
3616	184.	211.	210.	190.	196.	207.	213.	201.	211.	204.	216.	214.	220.	217.
3617	176.	205.	219.	212.	211.	222.	234.	228.	c	c	237.	223.	226.	222.
3618	175.	198.	211.	208.	208.	206.	214.	210.	217.	215.	202.	183.	202.	208.
3619	184.	228.	238.	226.	218.	c	240.	249.	240.	c	225.	236.	c	c
3620	182.	202.	215.	218.	221.	215.	207.	210.	215.	203.	205.	206.	204.	205.
3621	211.	233.	248.	267.	257.	269.	c	253.	257.	c	c	c	260.	243.
3622	193.	220.	234.	238.	243.	259.	259.	252.	261.	255.	245.	251.	244.	252.
3623	186.	192.	203.	199.	203.	204.	207.	c	c	c	c	201.	207.	198.
3624	179.	215.	226.	239.	235.	251.	238.	221.	c	249.	224.	233.	231.	214.
3625	179.	203.	212.	213.	214.	221.	209.	206.	212.	212.	214.	212.	209.	198.
3626	190.	217.	227.	221.	215.	228.	225.	222.	222.	219.	d			
3627	184.	205.	210.	209.	207.	207.	204.	209.	224.	201.	223.	222.	211.	205.
3628	201.	213.	218.	211.	205.	223.	221.	212.	229.	220.	223.	231.	229.	221.
3629	184.	203.	212.	209.	207.	223.	205.	203.	202.	205.	208.	200.	202.	203.
3630	157.	183.	188.	178.	170.	177.	169.	169.	175.	174.	171.	171.	171.	170.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.
d. Rat 3626 was found dead on day 80 of study.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 2): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	113-120	120-127	127-134
RAT #	DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
3601	a	172.	173.
3602	205.	206.	220.
3603	a	191.	204.
3604	187.	179.	188.
3605	182.	173.	190.
3606	196.	205.	214.
3607	a	198.	204.
3608	213.	207.	223.
3609	188.	179.	195.
3610	210.	201.	213.
3611	a	189.	211.
3612	192.	206.	214.
3613	193.	167.	204.
3614	189.	180.	204.
3615	180.	181.	186.
3616	220.	222.	220.
3617	235.	214.	228.
3618	208.	209.	209.
3619	a	211.	216.
3620	207.	202.	215.
3621	240.	239.	253.
3622	248.	250.	244.
3623	186.	193.	203.
3624	213.	231.	226.
3625	193.	199.	200.
3626	FOUND DEAD ON DAY 80 OF STUDY		
3627	206.	210.	217.
3628	210.	217.	217.
3629	201.	209.	202.
3630	174.	185.	185.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 3): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a	85b-92	92- 99	99-106	106-113
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY						
3631	158.	169.	164.	161.	166.	161.	170.	159.	161.	155.	168.	169.	177.	171.
3632	198.	232.	244.	244.	235.	239.	241.	241.	249.	234.	242.	243.	246.	216.
3633	184.	204.	224.	217.	228.	225.	215.	213.	217.	c	205.	210.	213.	210.
3634	183.	201.	202.	204.	205.	209.	203.	208.	210.	254.	217.	227.	c	221.
3635	158.	183.	183.	216.	215.	212.	196.	202.	215.	209.	204.	222.	210.	203.
3636	182.	197.	189.	202.	206.	219.	216.	216.	203.	205.	219.	205.	190.	211.
3637	172.	204.	211.	203.	211.	216.	224.	224.	c	218.	221.	229.	234.	259.
3638	178.	216.	233.	236.	244.	215.	253.	250.	251.	244.	233.	229.	230.	221.
3639	170.	190.	185.	187.	179.	183.	190.	233.	188.	195.	c	190.	191.	185.
3640	194.	200.	206.	212.	206.	206.	212.	215.	221.	209.	216.	221.	216.	208.
3641	182.	214.	232.	226.	221.	221.	224.	228.	228.	222.	226.	230.	221.	211.
3642	190.	204.	235.	239.	235.	238.	228.	223.	229.	216.	214.	213.	216.	206.
3643	181.	198.	202.	201.	208.	197.	194.	194.	194.	186.	175.	189.	181.	173.
3644	168.	214.	232.	231.	234.	231.	228.	225.	230.	c	c	228.	226.	224.
3645	176.	196.	209.	204.	211.	207.	204.	196.	209.	200.	163.	224.	215.	213.
3646	186.	208.	224.	234.	237.	258.	254.	c	250.	235.	c	c	227.	233.
3647	178.	204.	220.	220.	223.	214.	214.	214.	c	c	c	c	200.	196.
3648	164.	219.	234.	228.	224.	233.	238.	208.	239.	c	231.	230.	215.	212.
3649	166.	188.	201.	201.	191.	202.	197.	191.	197.	202.	200.	197.	190.	162.
3650	195.	223.	221.	214.	213.	217.	222.	218.	235.	221.	232.	227.	233.	209.
3651	166.	193.	199.	198.	193.	192.	182.	182.	190.	182.	196.	199.	181.	180.
3652	197.	212.	217.	222.	233.	228.	231.	c	236.	222.	228.	213.	216.	212.
3653	187.	186.	183.	189.	184.	187.	173.	171.	c	181.	180.	189.	185.	171.
3654	180.	203.	214.	203.	220.	208.	c	203.	203.	209.	209.	207.	210.	202.
3655	175.	192.	202.	200.	199.	216.	207.	213.	211.	213.	219.	213.	210.	203.
3656	184.	206.	209.	208.	207.	201.	203.	213.	207.	209.	204.	216.	217.	195.
3657	203.	232.	232.	211.	210.	224.	213.	231.	244.	236.	242.	231.	239.	231.
3658	170.	195.	190.	194.	213.	210.	196.	195.	191.	185.	184.	182.	188.	186.
3659	177.	203.	213.	228.	222.	234.	231.	227.	224.	218.	231.	222.	214.	209.
3660	129.	186.	197.	195.	195.	195.	194.	193.	211.	178.	203.	209.	203.	206.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 4): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	113-120	120-127	127-134
RAT #	DOSAGE GROUP 2		0.3 MG/KG/DAY
3631	157.	159.	170.
3632	230.	237.	242.
3633	208.	200.	213.
3634	220.	222.	228.
3635	207.	215.	227.
3636	215.	204.	206.
3637	a	222.	233.
3638	219.	228.	219.
3639	a	178.	180.
3640	190.	183.	193.
3641	204.	214.	219.
3642	200.	175.	203.
3643	172.	178.	179.
3644	220.	225.	216.
3645	196.	204.	213.
3646	230.	223.	228.
3647	193.	190.	197.
3648	238.	131.	245.
3649	142.	168.	192.
3650	209.	219.	224.
3651	178.	183.	186.
3652	206.	204.	196.
3653	180.	176.	190.
3654	210.	206.	204.
3655	207.	195.	206.
3656	198.	197.	198.
3657	225.	199.	226.
3658	185.	191.	189.
3659	220.	215.	215.
3660	202.	199.	a

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 5): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a	85b-92	92- 99	99-106	106-113
RAT #	DOSAGE GROUP 3										3.0 MG/KG/DAY			
3661	161.	179.	195.	190.	192.	203.	205.	200.	206.	196.	206.	c	204.	207.
3662	208.	230.	233.	230.	226.	239.	235.	240.	241.	240.	245.	245.	233.	231.
3663	184.	200.	193.	208.	206.	c	c	c	190.	c	c	c	199.	195.
3664	205.	230.	227.	226.	219.	218.	223.	227.	224.	224.	238.	242.	229.	228.
3665	175.	199.	203.	206.	197.	208.	207.	205.	192.	205.	220.	222.	218.	210.
3666	204.	223.	233.	225.	239.	247.	252.	240.	244.	c	c	215.	233.	223.
3667	175.	199.	212.	205.	209.	212.	210.	214.	223.	210.	218.	210.	218.	208.
3668	183.	202.	199.	200.	201.	208.	217.	216.	218.	c	206.	214.	225.	210.
3669	155.	174.	183.	191.	193.	204.	194.	c	214.	209.	205.	208.	220.	193.
3670	188.	217.	225.	248.	237.	c	246.	c	243.	c	222.	232.	228.	217.
3671	174.	202.	209.	207.	204.	207.	205.	208.	216.	210.	207.	210.	207.	208.
3672	206.	234.	243.	242.	236.	c	223.	c	c	c	c	233.	250.	228.
3673	184.	195.	199.	189.	190.	198.	194.	195.	188.	198.	188.	212.	207.	212.
3674	180.	208.	226.	225.	234.	218.	227.	213.	230.	189.	228.	222.	213.	211.
3675	185.	200.	201.	211.	192.	196.	209.	202.	206.	201.	200.	202.	209.	207.
3676	173.	193.	219.	223.	214.	186.	244.	226.	235.	226.	224.	226.	226.	217.
3677	190.	213.	214.	209.	208.	224.	c	213.	c	c	223.	224.	218.	219.
3678	181.	214.	232.	223.	228.	214.	223.	208.	223.	213.	217.	197.	202.	209.
3679	161.	194.	214.	215.	212.	215.	216.	202.	235.	224.	219.	230.	216.	206.
3680	186.	206.	218.	227.	217.	217.	215.	221.	223.	212.	220.	217.	222.	220.
3681	185.	210.	214.	200.	202.	199.	191.	191.	203.	200.	205.	192.	190.	191.
3682	200.	223.	230.	232.	225.	227.	220.	231.	233.	240.	240.	226.	224.	232.
3683	182.	205.	213.	211.	215.	222.	210.	209.	215.	212.	214.	210.	216.	204.
3684	197.	214.	213.	213.	208.	223.	225.	231.	226.	215.	222.	233.	232.	234.
3685	184.	206.	217.	219.	222.	210.	216.	222.	c	c	241.	231.	234.	216.
3686	190.	229.	256.	255.	250.	249.	242.	243.	257.	239.	244.	252.	251.	245.
3687	176.	200.	182.	205.	219.	c	c	c	c	c	c	227.	220.	229.
3688	175.	196.	205.	197.	203.	202.	199.	194.	207.	192.	196.	192.	194.	191.
3689	172.	185.	185.	188.	187.	187.	195.	191.	197.	193.	196.	202.	205.	202.
3690	196.	236.	248.	239.	235.	239.	240.	234.	232.	229.	238.	238.	250.	242.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 6): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	113-120	120-127	127-134
RAT #	DOSAGE GROUP 3		3.0 MG/KG/DAY
3661	203.	205.	210.
3662	214.	228.	229.
3663	207.	180.	206.
3664	224.	222.	238.
3665	211.	211.	221.
3666	222.	224.	236.
3667	213.	216.	225.
3668	204.	208.	215.
3669	200.	191.	212.
3670	214.	211.	222.
3671	207.	196.	201.
3672	a	237.	a
3673	a	212.	214.
3674	219.	215.	217.
3675	197.	191.	205.
3676	223.	205.	214.
3677	215.	202.	237.
3678	192.	202.	205.
3679	216.	219.	214.
3680	217.	220.	233.
3681	183.	185.	193.
3682	221.	225.	230.
3683	196.	207.	201.
3684	219.	224.	228.
3685	251.	217.	234.
3686	224.	236.	245.
3687	239.	216.	219.
3688	182.	185.	188.
3689	207.	199.	199.
3690	224.	235.	252.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 7): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a	85b-92	92- 99	99-106	106-113
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY						
3691	160.	172.	174.	168.	174.	179.	180.	180.	172.	168.	186.	184.	181.	180.
3692	185.	210.	212.	204.	199.	199.	202.	206.	205.	200.	211.	208.	206.	198.
3693	183.	206.	214.	207.	203.	185.	195.	196.	203.	189.	203.	205.	205.	200.
3694	197.	232.	228.	222.	223.	221.	215.	209.	213.	c	196.	208.	198.	190.
3695	179.	200.	218.	220.	197.	223.	216.	207.	210.	182.	211.	195.	204.	196.
3696	175.	188.	190.	191.	190.	197.	196.	183.	c	c	195.	203.	200.	196.
3697	168.	180.	197.	204.	204.	205.	204.	200.	210.	200.	198.	200.	195.	191.
3698	166.	194.	198.	193.	191.	MORIBUND SACRIFICED ON DAY 40 OF STUDY								
3699	175.	194.	197.	198.	196.	203.	207.	c	c	c	187.	207.	209.	217.
3700	193.	222.	221.	219.	230.	234.	223.	c	236.	228.	243.	240.	242.	235.
3701	179.	209.	219.	208.	211.	237.	c	c	214.	217.	c	c	216.	217.
3702	178.	207.	227.	213.	198.	200.	203.	200.	204.	200.	206.	198.	198.	196.
3703	173.	199.	202.	203.	201.	226.	219.	207.	197.	208.	211.	221.	237.	c
3704	183.	205.	208.	198.	195.	199.	194.	190.	192.	186.	178.	196.	199.	200.
3705	163.	178.	185.	202.	200.	213.	201.	203.	206.	200.	203.	206.	201.	198.
3706	174.	186.	187.	188.	184.	179.	186.	182.	188.	190.	198.	204.	196.	180.
3707	170.	188.	174.	171.	172.	178.	185.	182.	c	186.	157.	167.	166.	162.
3708	185.	201.	209.	219.	221.	237.	228.	c	c	c	246.	246.	232.	223.
3709	161.	181.	187.	185.	185.	186.	169.	177.	191.	193.	180.	190.	177.	184.
3710	180.	193.	c	196.	194.	191.	195.	190.	198.	192.	198.	195.	187.	187.
3711	195.	224.	220.	224.	219.	218.	198.	203.	209.	206.	213.	206.	209.	201.
3712	193.	210.	211.	209.	210.	214.	214.	218.	221.	225.	227.	231.	234.	237.
3713	167.	192.	206.	213.	215.	216.	225.	233.	c	238.	c	224.	209.	216.
3714	192.	219.	220.	208.	199.	215.	213.	222.	231.	220.	241.	240.	221.	220.
3715	182.	211.	220.	222.	219.	223.	209.	213.	209.	212.	218.	212.	208.	191.
3716	181.	218.	226.	230.	238.	237.	223.	c	226.	221.	209.	211.	210.	194.
3717	182.	201.	222.	222.	214.	213.	200.	205.	210.	208.	206.	202.	199.	206.
3718	189.	206.	207.	206.	204.	206.	207.	204.	210.	209.	213.	216.	228.	209.
3719	178.	204.	221.	209.	203.	206.	206.	199.	202.	203.	195.	211.	211.	211.
3720	191.	215.	206.	203.	201.	217.	211.	212.	214.	197.	203.	213.	220.	213.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. First value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B19 (PAGE 8): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DAYS	113-120	120-127	127-134
RAT #	DOSAGE GROUP 4		30.0 MG/KG/DAY
3691	a	176.	184.
3692	197.	199.	212.
3693	195.	202.	201.
3694	196.	200.	205.
3695	204.	195.	198.
3696	192.	199.	201.
3697	191.	188.	193.
3698	MORIBUND SACRIFICED ON DAY 40 OF STUDY		
3699	214.	197.	209.
3700	228.	231.	236.
3701	a	223.	225.
3702	a	198.	203.
3703	182.	211.	226.
3704	189.	195.	205.
3705	191.	200.	217.
3706	188.	190.	195.
3707	a	175.	188.
3708	220.	220.	224.
3709	200.	183.	202.
3710	189.	187.	193.
3711	198.	198.	206.
3712	223.	230.	230.
3713	215.	205.	209.
3714	215.	228.	209.
3715	209.	204.	205.
3716	196.	198.	202.
3717	189.	193.	199.
3718	214.	207.	210.
3719	198.	194.	199.
3720	201.	207.	243.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B20 (PAGE 1): MATING AND FERTILITY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 1 — 0 (CARRIER) MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
3601	1	M	C	P(3801)
3602	4	M	C	P(3802)
3603	14	M	C	P(3803)
3604	14	M	C	P(3804)
3605	1	M	C	P(3805)
3606	3	M	C	P(3806)
3607	2	M	C	P(3807)
3608	3	M	C	P(3808)
3609	3	M	C	P(3809)
3610	1	M	C	P(3810)
3611	3	M	C	P(3811)
3612	3	M	C	P(3812)
3613	3	M	C	P(3813)
3614	4	M	C	P(3814)
3615	4	M	C	P(3815)
3616	4	M	C	P(3816)
3617	1	M	C	NP(3817)
3618	4	M	C	P(3818)
3619	4	M	C	P(3819)
3620	1	M	C	NP(3820)
3621	3	M	C	P(3821)
3622	4	M	C	P(3822)
3623	8	M	C	P(3823)
3624	2	M	C	P(3824)
3625	3	M	C	P(3825)
3626	2	M	C	P(3826)
3627	3	M	C	P(3827)
3628	4	M	C	P(3828)
3629	1	M	C	P(3829)
3630	1	M	C	P(3830)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B20 (PAGE 2): MATING AND FERTILITY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
3631	2	M	C	P(3831)
3632	14	DID NOT MATE	-	-(3832)
3633	1	M	C	P(3833)
3634	3	M	C	P(3834)
3635	14	DID NOT MATE	-	-(3835)
3636	2	M	C	NP(3836)
3637	1	M	C	P(3837)
3638	1	M	C	P(3838)
3639	14	DID NOT MATE	-	-(3839)
3640	3	M	C	NP(3840)
3641	1	M	C	NP(3841)
3642	2	M	C	P(3842)
3643	1	M	C	P(3843)
3644	4	M	C	NP(3844)
3645	14	M	C	P(3845)
3646	4	M	C	P(3846)
3647	2	M	C	P(3847)
3648	3	M	C	P(3848)
3649	4	M	C	P(3849)
3650	1	M	C	P(3850)
3651	4	M	C	P(3851)
3652	4	M	C	P(3852)
3653	14	DID NOT MATE	-	-(3853)
3654	1	M	C	P(3854)
3655	4	M	C	P(3855)
3656	3	M	C	P(3856)
3657	3	M	C	P(3857)
3658	4	M	C	P(3858)
3659	4	M	C	P(3859)
3660	3	M	C	P(3860)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B20 (PAGE 3): MATING AND FERTILITY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 3 — 3.0 MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
3661	2	M	C	P(3861)
3662	4	M	C	P(3862)
3663	4	M	C	P(3863)
3664	1	M	C	P(3864)
3665	3	M	C	P(3865)
3666	4	M	C	P(3866)
3667	4	M	C	P(3867)
3668	1	M	C	P(3868)
3669	4	M	C	P(3869)
3670	1	M	C	NP(3870)
3671	14	DID NOT MATE	-	-(3871)
3672	1	M	C	P(3872)
3673	4	M	C	P(3873)
3674	4	M	C	NP(3874)
3675	4	M	C	P(3875)
3676	4	M	C	P(3876)
3677	3	M	C	P(3877)
3678	2	M	C	P(3878)
3679	4	M	C	P(3879)
3680	1	M	C	P(3880)
3681	2	M	C	P(3881)
3682	1	M	C	P(3882)
3683	4	M	C	P(3883)
3684	4	M	C	P(3884)
3685	1	M	C	P(3885)
3686	1	M	C	NP(3886)
3687	4	M	C	P(3887)
3688	3	M	C	P(3888)
3689	1	M	C	P(3889)
3690	4	M	C	P(3890)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B20 (PAGE 4): MATING AND FERTILITY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 4 — 30.0 MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
3691	4	M	C	P(3891)
3692	2	M	C	P(3892)
3693a	1	M	C	P(3893)
3693b	4	M	C	NP(3898)
3694	1	M	C	P(3894)
3695	2	M	C	P(3895)
3696	2	M	C	NP(3896)
3697	2	M	C	P(3897)
3698	MORIBUND SACRIFICED ON DAY 40 OF STUDY			
3699	2	M	C	P(3899)
3700	2	M	C	P(3900)
3701	1	M	C	P(3901)
3702	3	M	C	P(3902)
3703	1	M	C	NP(3903)
3704	4	M	C	P(3904)
3705	14	M	C	P(3905)
3706	3	M	C	P(3906)
3707	1	M	C	P(3907)
3708	10	M	C	NP(3908)
3709	3	M	C	NP(3909)
3710	4	M	C	P(3910)
3711	4	M	C	P(3911)
3712	3	M	C	P(3912)
3713	3	M	C	P(3913)
3714	1	M	C	NP(3914)
3715	14	M	NC	P(3915)
3716	4	M	C	P(3916)
3717	3	M	C	P(3917)
3718	3	M	C	P(3918)
3719	4	M	C	P(3919)
3720	4	M	C	P(3920)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT
a. Result of first cohabitation period.
b. Male rat mated early in the first cohabitation period and was cohabited with a second female rat.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B21 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
1				
0 (CARRIER)	3601	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3602	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3603	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3604	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3605	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3606	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3607	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3608	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3609	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3610	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3611	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3612	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3613	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3614	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3615	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3616	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3617	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3618	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3619	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3620	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3621	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3622	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3623	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3624	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3625	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3626	DS 80	80	FOUND DEAD ON DAY 80 OF STUDY. EXTERNAL OBSERVATIONS: INCISORS, UPPER, MISALIGNED. ALL OTHER TISSUES APPEARED NORMAL.
	3627	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3628	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3629	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3630	DS 138	138	ALL TISSUES APPEARED NORMAL.

DS = DAY OF STUDY
a. Refer to the individual clinical observations table (Table B16) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B21 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
2				
0.3	3631	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3632	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3633	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3634	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3635	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3636	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3637	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3638	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3639	DS 136	136	CAUDA EPIDIDYMIS: LEFT, TAN MASS (0.5 CM X 0.5 CM X 0.5 CM). TESTIS: RIGHT, SMALL. ALL OTHER TISSUES APPEARED NORMAL.
	3640	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3641	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3642	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3643	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3644	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3645	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3646	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3647	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3648	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3649	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3650	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3651	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3652	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3653	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3654	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3655	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3656	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3657	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3658	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3659	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3660	DS 138	138	ALL TISSUES APPEARED NORMAL.

DS = DAY OF STUDY
a. Refer to the individual clinical observations table (Table B16) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B21 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
3				
3.0	3661	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3662	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3663	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3664	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3665	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3666	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3667	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3668	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3669	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3670	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3671	DS 136	136	TESTES: SMALL. EPIDIDYMIDES: SMALL. ALL OTHER TISSUES APPEARED NORMAL.
	3672	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3673	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3674	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3675	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3676	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3677	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3678	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3679	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3680	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3681	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3682	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3683	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3684	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3685	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3686	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3687	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3688	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3689	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3690	DS 138	138	ALL TISSUES APPEARED NORMAL.

DS = DAY OF STUDY
a. Refer to the individual clinical observations table (Table B16) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B21 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
4				
30.0	3691	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3692	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3693	DS 135	135	NECROPSY OBSERVATIONS WERE NOT RECORDED.
	3694	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3695	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3696	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3697	DS 135	135	ALL TISSUES APPEARED NORMAL.
	3698	DS 40	40	MORIBUND SACRIFICED ON DAY 40 OF STUDY. ALL TISSUES APPEARED NORMAL.
	3699	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3700	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3701	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3702	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3703	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3704	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3705	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3706	DS 136	136	ALL TISSUES APPEARED NORMAL.
	3707	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3708	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3709	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3710	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3711	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3712	DS 137	137	SPLEEN: LARGE. ALL OTHER TISSUES APPEARED NORMAL.
	3713	DS 137	137	ALL TISSUES APPEARED NORMAL.
	3714	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3715	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3716	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3717	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3718	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3719	DS 138	138	ALL TISSUES APPEARED NORMAL.
	3720	DS 138	138	ALL TISSUES APPEARED NORMAL.

DS = DAY OF STUDY
a. Refer to the individual clinical observations table (Table B16) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
3601	540.	0.7342	0.14	0.2825	0.05	1.8581	0.34	1.7488	0.32	1.7916	0.33	0.8594	0.16
3602	657.	0.8142	0.12	0.4099	0.06	2.0016	0.30	1.8822	0.29	1.3989	0.21	0.6710	0.10
3603	602.	0.7297	0.12	0.3439	0.06	1.7163	0.28	1.5578	0.26	2.2750	0.38	1.1168	0.18
3604	550.	0.8043	0.15	0.4057	0.07	1.9188	0.35	1.7808	0.32	1.7407	0.32	0.8712	0.16
3605	550.	0.7689	0.14	0.4469	0.08	1.7527	0.32	1.6173	0.29	1.4980	0.27	0.8500	0.15
3606	650.	0.7341	0.11	0.3456	0.05	1.7629	0.27	1.6370	0.25	2.3665	0.36	1.3139	0.20
3607	528.	0.7512	0.14	0.3680	0.07	1.9043	0.36	1.7523	0.33	2.0239	0.38	1.0889	0.21
3608	668.	0.8474	0.13	0.3933	0.06	2.0655	0.31	1.8861	0.28	2.1822	0.33	1.1085	0.16
3609	614.	0.8281	0.13	0.3861	0.06	1.9172	0.31	1.7514	0.28	1.9389	0.32	1.0452	0.17
3610	697.	0.9068	0.13	0.4436	0.06	1.9528	0.28	1.7606	0.25	2.0012	0.29	0.9835	0.14
3611	593.	0.6931	0.12	0.3330	0.06	1.8806	0.32	1.7546	0.30	2.2212	0.37	1.0466	0.18
3612	662.	0.9616	0.14	0.4170	0.06	1.8671	0.28	1.7034	0.26	2.2927	0.35	1.2624	0.19
3613	635.	0.8320	0.13	0.3605	0.06	2.0202	0.32	1.8296	0.29	1.1417	0.18	0.6648	0.10
3614	597.	0.9022	0.15	0.4188	0.07	1.6541	0.28	1.5081	0.25	1.9098	0.32	1.2676	0.21
3615	532.	0.6537	0.12	0.2865	0.05	1.5918	0.30	1.4658	0.28	1.3449	0.25	0.7236	0.14
3616	653.	0.8714	0.13	0.3714	0.06	1.8488	0.28	1.6903	0.26	1.6201	0.25	0.8994	0.14
3617	702.	0.8889	0.13	0.3909	0.06	2.0032	0.28	1.8187	0.26	1.5526	0.22	0.8736	0.12
3618	615.	0.8422	0.14	0.4141	0.07	1.8216	0.30	1.6920	0.28	1.5416	0.25	0.8711	0.14
3619	615.	0.8289	0.13	0.3411	0.06	1.8163	0.30	1.6903	0.27	1.3371	0.22	0.8528	0.14
3620	619.	0.8271	0.13	0.4160	0.07	1.9717	0.32	1.8156	0.29	1.6319	0.26	0.7580	0.12
3621	695.	0.8219	0.12	0.4489	0.06	1.9721	0.28	1.6871	0.24	1.2685	0.18	0.9363	0.13
3622	751.	0.8476	0.11	0.3958	0.05	1.8950	0.25	1.7096	0.23	1.7890	0.24	1.0816	0.14
3623	582.	0.8160	0.14	0.3818	0.06	1.9629	0.34	1.7926	0.31	1.4028	0.24	0.6617	0.11
3624	745.	0.7757	0.10	0.3765	0.05	1.8548	0.25	1.6651	0.22	2.1222	0.28	1.4119	0.19
3625	627.	0.7518	0.12	0.3456	0.06	1.7148	0.27	1.5990	0.26	2.0394	0.32	1.0721	0.17
3626a	---	0.97	----			1.98	----						
3627	694.	0.8544	0.12	0.4073	0.06	2.1181	0.30	1.8217	0.26	2.1581	0.31	1.1682	0.17
3628	734.	0.8499	0.12	0.3964	0.05	2.2842	0.31	2.0261	0.28	1.4392	0.20	0.9777	0.13
3629	651.	0.8256	0.13	0.3966	0.06	2.0211	0.31	1.8824	0.29	1.5974	0.24	1.1010	0.17
3630	547.	0.8136	0.15	0.3705	0.07	1.7766	0.32	1.0759	0.20	1.9229	0.35	1.1368	0.21

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Rat 3626 was found dead on day 80 of study; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % TBW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % TBW	PROSTATE ABS. WT.	PROSTATE REL. % TBW	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
3601	540.	0.7040	0.13	1.8707	0.35	0.5328	0.10	0.016	2.96	2.20	0.41	24.36	4.51
3602	657.	0.8433	0.13	2.0323	0.31	0.6189	0.09	0.015	2.28	2.20	0.33	23.48b	3.57
3603	602.	0.7303	0.12	1.7193	0.28	0.7137	0.12	0.016	2.66	2.48	0.41	21.11	3.51
3604	550.	0.8105	0.15	2.0764	0.38	0.7634	0.14	0.012	2.18	2.27	0.41	25.16	4.57
3605	550.	0.7637	0.14	1.6820	0.30	0.6274	0.11	0.013	2.36	2.27	0.41	19.83	3.60
3606	650.	0.7866	0.12	1.7760	0.27	0.5468	0.08	0.019	2.92	2.57	0.40	26.40	4.06
3607	528.	0.8726	0.16	2.0298	0.38	0.8453	0.16	0.007	1.32	2.70	0.51	21.23	4.02
3608	668.	0.8460	0.13	2.0804	0.31	0.5407	0.08	0.012	1.80	2.44	0.36	27.02	4.04
3609	614.	0.8483	0.14	1.7818	0.29	0.7463	0.12	0.015	2.44	2.48	0.40	24.08	3.92
3610	697.	0.8949	0.13	1.9425	0.28	0.6026	0.09	0.015	2.15	2.42	0.35	27.49	3.94
3611	593.	0.7164	0.12	1.9356	0.33	0.8672	0.15	0.012	2.02	2.27	0.38	22.41	3.78
3612	662.	0.8375	0.13	1.8563	0.28	0.4827	0.07	0.014	2.11	2.34	0.35	25.25	3.81
3613	635.	0.7862	0.12	2.0382	0.32	0.8518	0.13	0.007	1.10	2.28	0.36	25.82	4.07
3614	597.	0.8798	0.15	1.7135	0.29	0.7011	0.12	0.012	2.01	2.29	0.38	23.36	3.91
3615	532.	0.6257	0.12	1.5848	0.30	0.9246	0.17	0.009	1.69	2.10	0.39	19.53	3.67
3616	653.	0.8271	0.13	1.8570	0.28	0.7096	0.11	0.017	2.60	2.26	0.35	31.04	4.75
3617	702.	0.8565	0.12	2.0587	0.29	0.8538	0.12	0.009	1.28	2.46	0.35	29.92	4.26
3618	615.	0.8583	0.14	1.8020	0.29	0.9766	0.16	0.012	1.95	2.27	0.37	22.33	3.63
3619	615.	0.7842	0.13	1.7977	0.29	0.7265	0.12	0.012	1.95	2.18	0.35	28.69	4.66
3620	619.	0.8871	0.14	1.9505	0.32	1.0378	0.17	0.014	2.26	2.29	0.37	26.16	4.23
3621	695.	0.9154	0.13	1.9921	0.29	0.7713	0.11	0.015	2.16	2.46	0.35	25.92	3.73
3622	751.	0.8292	0.11	1.8886	0.25	1.0606	0.14	0.014	1.86	2.36	0.31	35.27	4.70
3623	582.	0.8344	0.14	1.9481	0.33	0.6822	0.12	0.013	2.23	2.46	0.42	22.11	3.80
3624	745.	0.8321	0.11	1.8246	0.24	0.6469	0.09	0.014	1.88	2.35	0.32	29.40	3.95
3625	627.	0.7667	0.12	1.7238	0.27	0.8926	0.14	0.012	1.91	2.31	0.37	28.96	4.62
3626c	---	0.85	----	1.91	----			0.011	----	2.39	----	26.29	----
3627	694.	0.7625	0.11	2.0615	0.30	0.9711	0.14	0.014	2.02	2.52	0.36	27.24	3.92
3628	734.	0.7973	0.11	2.2931	0.31	0.7769	0.10	0.016	2.18	2.42	0.33	24.66	3.36
3629	651.	0.9547	0.15	2.2323	0.34	0.6747	0.10	0.022	3.38	2.41	0.37	25.88	3.98
3630	547.	0.8266	0.15	1.7204	0.31	0.7750	0.14	0.022	4.02	2.24	0.41	22.64	4.14

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Rat 3626 was found dead on day 80 of study; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY					
3601	540.	4.90	0.91	0.061	0.01	1.04	0.19	0.041	7.59	1.99	0.37
3602	657.	5.77	0.88	0.082	0.01	0.98	0.15	0.036	5.48	1.87	0.28
3603	602.	4.79	0.80	0.064	0.01	0.92	0.15	0.035	5.81	1.85	0.31
3604	550.	4.56	0.83	0.045	0.01	0.93	0.17	0.034	6.18	1.80	0.33
3605	550.	4.94	0.90	0.051	0.01	1.04	0.19	0.037	6.73	2.02	0.37
3606	650.	3.47	0.53	0.090	0.01	1.25	0.19	0.040	6.15	2.11	0.32
3607	528.	6.03	1.14	0.057	0.01	1.13	0.21	0.040	7.58	2.16	0.41
3608	668.	6.25	0.94	0.086	0.01	1.04	0.16	0.034	5.09	2.05	0.31
3609	614.	4.70	0.76	0.071	0.01	1.11	0.18	0.033	5.37	1.93	0.31
3610	697.	6.49	0.93	0.066	0.01	1.23	0.18	0.047	6.74	2.42	0.35
3611	593.	5.40	0.91	0.050	0.01	1.12	0.19	0.037	6.24	1.80	0.30
3612	662.	4.76	0.72	0.061	0.01	0.91	0.14	0.033	4.98	2.46	0.37
3613	635.	5.00	0.79	0.058	0.01	1.09	0.17	0.039	6.14	1.76	0.28
3614	597.	4.94	0.83	0.042	0.01	1.08	0.18	0.040	6.70	1.79	0.30
3615	532.	4.32	0.81	0.069	0.01	0.93	0.17	0.034	6.39	1.54	0.29
3616	653.	4.96	0.76	0.066	0.01	0.91	0.14	0.035	5.36	1.90	0.29
3617	702.	5.61	0.80	0.075	0.01	1.30	0.18	0.048	6.84	2.24	0.32
3618	615.	5.19	0.84	0.076	0.01	0.97	0.16	0.039	6.34	1.84	0.30
3619	615.	5.24	0.85	0.048	0.01	1.02	0.16	0.038	6.18	1.69	0.27
3620	619.	5.82	0.94	0.066	0.01	0.96	0.16	0.045	7.27	1.97	0.32
3621	695.	5.68	0.82	0.054	0.01	1.11	0.16	0.046	6.62	1.85	0.27
3622	751.	6.34	0.84	0.067	0.01	1.17	0.16	0.043	5.72	2.14	0.28
3623	582.	4.26	0.73	0.072	0.01	0.98	0.17	0.032	5.50	1.71	0.29
3624	745.	5.64	0.76	0.068	0.01	1.01	0.14	0.040	5.37	1.84	0.25
3625	627.	5.17	0.82	0.048	0.01	1.05	0.17	0.045	7.18	1.92	0.31
3626b	---	5.65	----	0.078	----	0.84	----	0.043	----	1.99	----
3627	694.	6.15	0.89	0.088	0.01	1.16	0.17	0.041	5.91	1.71	0.25
3628	734.	5.89	0.80	0.070	0.01	0.94	0.13	0.043	5.86	1.98	0.27
3629	651.	5.23	0.80	0.083	0.01	1.20	0.18	0.043	6.60	1.85	0.28
3630	547.	5.07	0.93	0.050	0.01	0.95	0.17	0.040	7.31	1.87	0.34

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Rat 3626 was found dead on day 80 of study; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
3631	536.	0.6598	0.12	0.3077	0.06	1.7935	0.33	1.6397	0.30	2.0435	0.38	0.9635	0.18
3632	757.	0.9422	0.12	0.4033	0.05	2.0423	0.27	1.8614	0.24	2.2389	0.30	1.1853	0.16
3633	650.	0.8356	0.13	0.3617	0.06	2.0117	0.31	1.8751	0.29	2.1765	0.33	1.2295	0.19
3634	686.	0.7592	0.11	0.3748	0.05	1.5933	0.23	1.4945	0.22	2.1197	0.31	1.1273	0.16
3635	655.	0.8830	0.13	0.4652	0.07	1.7887	0.27	1.6650	0.25	1.6257	0.25	0.9684	0.15
3636	676.	0.9123	0.13	0.4243	0.06	2.0761	0.31	1.9493	0.29	1.5680	0.23	0.8736	0.13
3637	671.	0.7254	0.11	0.3510	0.05	1.8807	0.28	1.7711	0.26	2.1196	0.32	1.1899	0.18
3638	718.	0.7817	0.11	0.3936	0.05	1.9631	0.27	1.8305	0.25	1.6963	0.24	0.8769	0.12
3639	569.	0.6835a	0.12a	0.4011a	0.07a	1.1661	0.20	1.0168	0.18	1.6332	0.29	0.8822	0.16
3640	604.	0.7998	0.13	0.3907	0.06	1.8925	0.31	1.6579	0.27	1.7646	0.29	0.9927	0.16
3641	738.	0.8408	0.11	0.4244	0.06	1.8822	0.26	1.7077	0.23	1.9875	0.27	1.2144	0.16
3642	618.	0.8688	0.14	0.3918	0.06	1.8686	0.30	1.7794	0.29	2.0266	0.33	1.0243	0.16
3643	577.	0.8340	0.14	0.3837	0.07	1.9570	0.34	1.7567	0.30	1.7781	0.31	0.9684	0.17
3644	755.	0.8111	0.11	0.3489	0.05	2.0631	0.27	1.8765	0.25	1.6805	0.22	0.9601	0.13
3645	706.	0.8149	0.12	0.3671	0.05	1.8793	0.27	1.6817	0.24	1.5008	0.21	0.8576	0.12
3646	689.	0.8636	0.12	0.3774	0.05	1.9778	0.29	1.6390	0.24	1.8139	0.26	1.0556	0.15
3647	634.	0.8365	0.13	0.3987	0.06	2.0424	0.32	1.8938	0.30	1.5135	0.24	1.1756	0.18
3648	623.	0.7929	0.13	0.3727	0.06	2.0047	0.32	1.8121	0.29	1.8330	0.29	1.0293	0.16
3649	580.	0.9005	0.16	0.4260	0.07	2.0672	0.36	1.9036	0.33	1.2839	0.22	0.8048	0.14
3650	680.	0.8260	0.12	0.3791	0.06	1.9835	0.29	1.8555	0.27	1.5228	0.22	0.7866	0.12
3651	566.	0.6896	0.12	0.3707	0.06	1.7217	0.30	1.4376	0.25	1.5818	0.28	0.8653	0.15
3652	648.	0.9125	0.14	0.4535	0.07	1.9247	0.30	1.7120	0.26	1.2660	0.20	0.7568	0.12
3653	510.	0.8375	0.16	0.3805	0.07	1.7705	0.35	1.5974	0.31	1.6551	0.32	0.9787	0.19
3654	658.	0.8294	0.13	0.4266	0.06	1.9769	0.30	1.8320	0.28	2.0634	0.31	1.0733	0.16
3655	605.	0.8174	0.14	0.3847	0.06	1.8935	0.31	1.7349	0.29	1.2902	0.21	0.6914	0.11
3656	631.	0.6586	0.10	0.2970	0.05	1.7213	0.27	1.6083	0.25	1.3320	0.21	0.7934	0.12
3657	701.	0.8133	0.12	0.4454	0.06	2.0476	0.29	1.7941	0.26	1.5894	0.23	0.8616	0.12
3658	586.	0.7350	0.12	0.3908	0.07	1.5435	0.26	1.2846	0.22	1.1268	0.19	0.7385b	0.13
3659	690.	0.8796	0.13	0.3658	0.05	1.9810	0.29	1.6650	0.24	1.4396	0.21	0.7856	0.11
3660	622.	0.8004	0.13	0.3715	0.06	2.1831	0.35	1.6368	0.26	1.4116	0.23	0.7925	0.13

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Rat 3639 had a tan mass on the left cauda epididymis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT		TESTIS RIGHT		PROSTATE		PITUITARY		BRAIN		LIVER	
		ABS. WT.	REL. % TBW	ABS. WT.	REL. % TBW	ABS. WT.	REL. % TBW	ABS. WT.	REL. % TBW a	ABS. WT.	REL. % TBW	ABS. WT.	REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
3631	536.	0.7957	0.15	1.8667	0.35	1.1810	0.22	0.013	2.42	2.23	0.42	19.79	3.69
3632	757.	0.8659	0.11	2.0364	0.27	0.6806	0.09	0.016	2.11	2.42	0.32	32.66	4.31
3633	650.	0.8391	0.13	1.9791	0.30	0.6931	0.11	0.014	2.15	2.33	0.36	21.09	3.24
3634	686.	0.7505	0.11	1.6676	0.24	0.8439	0.12	0.012	1.75	2.50	0.36	31.08	4.53
3635	655.	0.8912	0.14	1.7929	0.27	0.8948	0.14	0.012	1.83	2.33	0.36	25.90	3.95
3636	676.	0.9174	0.14	2.1523	0.32	0.8968	0.13	0.013	1.92	2.64	0.39	24.90	3.68
3637	671.	0.7969	0.12	1.8611	0.28	0.7225	0.11	0.030	4.47	2.21	0.33	29.22	4.35
3638	718.	0.7904	0.11	1.9912	0.28	0.7060	0.10	0.014	1.95	2.40	0.33	32.86	4.58
3639	569.	0.6130	0.11	0.8784b	0.15b	1.0370	0.18	0.021	3.69	2.47	0.43	24.19	4.25
3640	604.	0.8649	0.14	1.8488	0.31	0.6186	0.10	0.018	2.98	2.46	0.41	22.23	3.68
3641	738.	0.7718	0.10	1.9416	0.26	0.8820	0.12	0.014	1.90	2.68	0.36	23.82	3.23
3642	618.	0.8394	0.14	1.8979	0.31	0.5797	0.09	0.012	1.94	2.11	0.34	30.40	4.92
3643	577.	0.8347	0.14	1.9962	0.34	0.5764	0.10	0.011	1.91	2.12	0.37	29.74	5.15
3644	755.	0.8890c	0.12	1.9249	0.25	0.6803	0.09	0.014	1.85	2.61	0.34	28.76	3.81
3645	706.	0.7872c	0.11	2.0000	0.28	0.6552	0.09	0.016	2.27	2.39	0.34	23.85	3.38
3646	689.	0.8160	0.12	1.9123	0.28	0.9102	0.13	0.014	2.03	2.31	0.34	37.74	5.48
3647	634.	0.9088	0.14	2.1231	0.33	0.8414	0.13	0.016	2.52	2.55	0.40	24.41	3.85
3648	623.	0.8272	0.13	2.0343	0.33	0.5474	0.09	0.014	2.25	2.36	0.38	24.06	3.86
3649	580.	0.9211	0.16	2.0548	0.35	0.6847	0.12	0.015	2.59	2.38	0.41	26.14	4.51
3650	680.	0.7758	0.11	2.0880	0.31	0.3708	0.05	0.012	1.76	2.47	0.36	28.01	4.12
3651	566.	0.7262	0.13	1.7110	0.30	0.7287	0.13	0.018	3.18	2.33	0.41	21.02	3.71
3652	648.	0.9744	0.15	1.9121	0.30	0.5325	0.08	0.012	1.85	2.39	0.37	22.97	3.54
3653	510.	0.8288	0.16	1.7300	0.34	0.6948	0.14	0.011	2.16	2.31	0.45	20.34	3.99
3654	658.	0.8108	0.12	2.0244	0.31	0.5354	0.08	0.015	2.28	2.23	0.34	37.18	5.65
3655	605.	0.8188	0.14	1.9246	0.32	0.5861	0.10	0.015	2.48	2.41	0.40	22.52	3.72
3656	631.	0.8015	0.13	1.7609	0.28	0.4819	0.08	0.009	1.43	2.28	0.36	27.11	4.30
3657	701.	0.9205	0.13	2.0123	0.29	0.6583	0.09	0.017	2.42	2.64	0.38	32.35	4.61
3658	586.	0.7547	0.13	1.5873	0.27	0.6573	0.11	0.016	2.73	2.47	0.42	20.96	3.58
3659	690.	0.8578	0.12	1.9095	0.28	0.8387	0.12	0.021	3.04	2.45	0.36	24.27	3.52
3660	622.	0.8835	0.14	2.1791	0.35	0.5269	0.08	0.012	1.93	2.52	0.40	29.08	4.68

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Rat 3639 had a small right testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

c. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY					
3631	536.	4.10	0.76	0.065	0.01	0.90	0.17	0.042	7.84	1.64	0.30
3632	757.	6.65	0.88	0.078	0.01	0.95	0.12	0.050	6.60	2.34	0.31
3633	650.	5.63	0.87	0.053	0.01	1.52	0.23	0.044	6.77	1.96	0.30
3634	686.	6.27	0.91	0.087	0.01	1.16	0.17	0.048	7.00	2.21	0.32
3635	655.	4.89	0.75	0.034	0.00	1.19	0.18	0.044	6.72	1.68	0.26
3636	676.	6.01	0.89	0.045	0.01	1.26	0.19	0.040	5.92	2.03	0.30
3637	671.	6.82	1.02	0.063	0.01	1.70	0.25	0.035	5.22	2.76	0.41
3638	718.	2.94	0.41	0.043	0.00	1.04	0.14	0.039	5.43	2.26	0.31
3639	569.	4.95	0.87	0.054	0.01	1.02	0.18	0.030	5.27	1.98	0.35
3640	604.	5.22	0.86	0.062	0.01	1.02	0.17	0.027	4.47	1.81	0.30
3641	738.	6.02	0.82	0.071	0.01	1.16	0.16	0.038	5.15	2.21	0.30
3642	618.	5.49	0.89	0.064	0.01	1.21	0.20	0.048	7.77	1.93	0.31
3643	577.	4.73	0.82	0.056	0.01	1.11	0.19	0.045	7.80	1.86	0.32
3644	755.	5.78	0.76	0.096	0.01	1.35	0.18	0.035	4.64	1.98	0.26
3645	706.	5.61	0.79	0.066	0.01	0.93	0.13	0.046	6.52	1.94	0.27
3646	689.	6.53	0.95	0.062	0.01	1.13	0.16	0.046	6.68	2.20	0.32
3647	634.	5.34	0.84	0.051	0.01	0.96	0.15	0.038	5.99	1.80	0.28
3648	623.	5.49	0.88	0.060	0.01	1.00	0.16	0.042	6.74	1.78	0.28
3649	580.	4.97	0.86	0.046	0.01	1.26	0.22	0.039	6.72	1.91	0.33
3650	680.	5.80	0.85	0.053	0.01	1.26	0.18	0.040	5.88	2.10	0.31
3651	566.	5.33	0.94	0.029	0.00	1.15	0.20	0.038	6.71	1.70	0.30
3652	648.	5.74	0.88	0.071	0.01	1.09	0.17	b	----	1.86	0.29
3653	510.	5.45	1.07	0.062	0.01	1.10	0.22	0.036	7.06	1.70	0.33
3654	658.	6.03	0.92	0.074	0.01	1.10	0.17	0.050	7.60	1.78	0.27
3655	605.	4.85	0.80	0.064	0.01	1.05	0.17	0.049	8.10	1.79	0.30
3656	631.	5.56	0.88	0.069	0.01	1.24	0.20	0.036	5.70	1.78	0.28
3657	701.	5.61	0.80	0.082	0.01	1.22	0.17	0.044	6.28	2.09	0.30
3658	586.	4.70	0.80	0.066	0.01	1.01	0.17	0.036	6.14	1.68	0.29
3659	690.	5.71	0.83	0.069	0.01	1.20	0.17	0.041	5.94	2.14	0.31
3660	622.	5.53	0.89	0.071	0.01	1.25	0.20	0.044	7.07	1.97	0.32

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
3661	672.	0.8065	0.12	0.3925	0.06	2.0887	0.31	1.9451	0.29	1.5548	0.23	0.8484	0.13
3662	688.	0.8433	0.12	0.4063	0.06	1.8995	0.28	1.7645	0.26	1.5329	0.22	0.8558	0.12
3663	618.	0.7656	0.12	0.3289	0.05	1.8932	0.31	1.7769	0.29	2.2250	0.36	1.2438	0.20
3664	661.	0.7723	0.12	0.4473	0.07	1.7512	0.26	1.6254	0.24	1.8874	0.28	1.0579	0.16
3665	617.	0.8071	0.13	0.3475	0.06	1.8540	0.30	1.7174	0.28	1.6883	0.27	0.8906	0.14
3666	768.	0.7044	0.09	0.3413	0.04	1.8669	0.24	1.7508	0.23	1.2111	0.16	0.6660	0.09
3667	705.	0.8124	0.12	0.4405	0.06	1.9024	0.27	1.7820	0.25	2.0061	0.28	1.0765	0.15
3668	649.	0.8448	0.13	0.4281	0.06	1.9670	0.30	1.8544	0.28	1.8393	0.28	0.8180	0.13
3669	620.	0.8258	0.13	0.3937	0.06	1.9030	0.31	1.7319	0.28	1.6436	0.26	0.8941	0.14
3670	683.	0.8871	0.13	0.3790	0.06	1.8302	0.27	1.6288	0.24	1.4468	0.21	0.7983	0.12
3671	632.	0.4091a	0.06a	0.1700a	0.03a	0.8012a	0.13a	0.6196	0.10	1.5020	0.24	0.8761	0.14
3672	734.	0.7984	0.11	0.3876	0.05	1.9595	0.27	1.7190	0.23	1.7562	0.24	0.9879	0.13
3673	634.	0.8019	0.13	0.3802	0.06	1.7588	0.28	1.6460	0.26	1.6665	0.26	0.9425	0.15
3674	668.	0.8206	0.12	0.4118	0.06	1.8316	0.27	1.6131	0.24	1.6245	0.24	0.8919	0.13
3675	599.	0.8848	0.15	0.3590	0.06	1.7854	0.30	1.6549	0.28	2.1854	0.36	1.2653	0.21
3676	691.	0.7704	0.11	0.3273	0.05	1.9094	0.28	1.7232	0.25	1.5733	0.23	0.9178	0.13
3677	678.	0.7767	0.11	0.3000	0.04	2.0436	0.30	1.8361	0.27	1.8195	0.27	1.0477	0.15
3678	657.	0.8210	0.12	0.3675	0.06	1.8663	0.28	1.6474	0.25	1.6894	0.26	0.9322	0.14
3679	677.	0.7582	0.11	0.3528	0.05	1.8421	0.27	1.5259	0.22	2.0076	0.30	1.0219	0.15
3680	667.	0.8548	0.13	0.3943	0.06	2.0214	0.30	1.8150	0.27	1.7555	0.26	0.9475	0.14
3681	592.	0.7996	0.14	0.3659	0.06	1.7651	0.30	1.5925	0.27	1.9708	0.33	1.0623	0.18
3682	720.	0.9092b	0.13	0.3558	0.05	1.8114	0.25	1.6178	0.22	1.7878	0.25	1.0223	0.14
3683	631.	0.8631	0.14	0.4146	0.06	1.9924	0.32	1.8149	0.29	1.9980	0.32	1.0844	0.17
3684	668.	0.9227	0.14	0.4218	0.06	2.0593	0.31	1.9172	0.29	1.8963	0.28	1.0000	0.15
3685	681.	0.8143	0.12	0.3871	0.06	2.0239	0.30	1.9090	0.28	1.8978	0.28	1.0085	0.15
3686	731.	0.7942	0.11	0.4110	0.06	2.1472	0.29	1.9187	0.26	1.6969	0.23	0.9968	0.14
3687	533.	0.7680	0.14	0.3606	0.07	1.8649	0.35	1.6687	0.31	1.4614	0.27	0.6951	0.13
3688	606.	0.7883	0.13	0.3878	0.06	2.1173	0.35	1.9197	0.32	1.4132	0.23	0.9972	0.16
3689	654.	0.8416	0.13	0.3862	0.06	1.8850	0.29	1.7684	0.27	1.1761c	0.18c	0.8095	0.12
3690	784.	0.8253	0.10	0.4070	0.05	1.9825	0.25	1.6255	0.21	1.6611	0.21	1.1218	0.14

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Rat 3671 had a small left epididymis and a small left testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

b. Damaged during processing (weight not affected).

c. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % TBW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % TBW	PROSTATE ABS. WT.	PROSTATE REL. % TBW	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
3661	672.	0.8199	0.12	2.0183	0.30	0.7398	0.11	0.014	2.08	2.46	0.37	25.09	3.73
3662	688.	0.8776	0.13	1.8495	0.27	0.7976	0.12	0.015	2.18	2.49	0.36	26.69	3.88
3663	618.	0.8434	0.14	1.9028	0.31	0.8529	0.14	0.012	1.94	2.35	0.38	33.31	5.39
3664	661.	0.7908	0.12	1.8384	0.28	1.0209	0.15	0.013	1.97	2.40	0.36	26.31	3.98
3665	617.	0.7398	0.12	1.9203	0.31	1.0778	0.17	0.012	1.94	2.34	0.38	25.80	4.18
3666	768.	0.7736	0.10	1.9674	0.26	0.4751	0.06	0.015	1.95	2.20	0.29	29.30	3.82
3667	705.	0.8228	0.12	1.8372	0.26	0.9242	0.13	0.026	3.69	2.46	0.35	35.10	4.98
3668	649.	0.7529	0.12	1.9976	0.31	0.9372	0.14	0.010	1.54	2.28	0.35	27.05	4.17
3669	620.	0.8659	0.14	1.8947	0.30	0.7658	0.12	0.013	2.10	2.44	0.39	28.36	4.57
3670	683.	0.7471	0.11	1.8409	0.27	0.6229	0.09	0.008	1.17	2.41	0.35	29.10	4.26
3671	632.	0.3871b	0.06b	0.8716b	0.14b	0.7381	0.12	0.012	1.90	2.38	0.38	25.95	4.11
3672	734.	0.7721	0.10	1.8864	0.26	0.8475	0.12	0.017	2.32	2.28	0.31	26.11	3.56
3673	634.	0.8342	0.13	1.7594	0.28	0.8092	0.13	0.017	2.68	2.30	0.36	25.97	4.10
3674	668.	0.8877	0.13	1.8370	0.28	0.6533	0.10	0.013	1.95	2.41	0.36	23.15	3.46
3675	599.	0.7287	0.12	1.7557	0.29	0.8037	0.13	0.018	3.00	2.35	0.39	21.41	3.57
3676	691.	0.8001	0.12	1.9898	0.29	0.7538	0.11	0.019	2.75	2.54	0.37	26.62	3.85
3677	678.	0.7871	0.12	2.0882	0.31	0.6524	0.10	0.017	2.51	2.26	0.33	28.31	4.18
3678	657.	0.8284	0.13	1.8982	0.29	0.6995	0.11	0.017	2.59	2.48	0.38	24.91	3.79
3679	677.	0.7479	0.11	1.7978	0.26	0.8410	0.12	0.010	1.48	2.39	0.35	24.29	3.59
3680	667.	0.8250	0.12	1.9230	0.29	0.7306	0.11	0.015	2.25	2.06c	0.31	29.09	4.36
3681	592.	0.7930	0.13	1.7511	0.30	0.4213	0.07	0.013	2.20	2.32	0.39	22.67	3.83
3682	720.	0.9039	0.12	1.7831	0.25	0.5838	0.08	0.015	2.08	2.53	0.35	28.39	3.94
3683	631.	0.8922	0.14	2.0067	0.32	0.8440	0.13	0.012	1.90	2.24	0.35	26.61	4.22
3684	668.	0.9418	0.14	2.1554	0.32	0.8324	0.12	0.014	2.10	2.57	0.38	25.22	3.78
3685	681.	0.8035	0.12	1.9878	0.29	0.5481	0.08	0.015	2.20	2.44	0.36	28.73	4.22
3686	731.	0.7730	0.10	2.0309	0.28	0.6462	0.09	0.014	1.92	2.39	0.33	29.17	3.99
3687	533.	0.7825	0.15	1.8308	0.34	0.9693	0.18	0.012	2.25	2.28	0.43	19.73	3.70
3688	606.	0.9060	0.15	2.2093	0.36	0.6092	0.10	0.015	2.48	2.38	0.39	23.95	3.95
3689	654.	0.8199	0.12	1.9530	0.30	0.6286	0.10	0.013	1.99	2.43	0.37	24.67	3.77
3690	784.	0.8831	0.11	1.9500	0.25	0.6746	0.09	0.012	1.53	2.32	0.30	33.01	4.21

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Rat 3671 had a small right epididymis and a small right testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

c. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 9): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY					
3661	672.	4.72	0.70	0.055	0.01	1.08	0.16	0.046	6.84	1.85	0.28
3662	688.	5.45	0.79	0.049	0.01	1.01	0.15	0.044	6.40	1.85	0.27
3663	618.	5.57	0.90	0.060	0.01	1.40	0.23	0.047	7.60	2.08	0.34
3664	661.	5.46	0.83	0.046	0.01	1.15	0.17	0.041	6.20	2.15	0.32
3665	617.	5.63	0.91	0.061	0.01	1.01	0.16	0.040	6.48	1.98	0.32
3666	768.	5.97	0.78	0.097	0.01	1.08	0.14	0.047	6.12	2.07	0.27
3667	705.	5.79	0.82	0.058	0.01	0.98	0.14	0.046	6.52	1.81	0.26
3668	649.	5.02	0.77	0.054	0.01	1.22	0.19	0.046	7.09	1.91	0.29
3669	620.	4.79	0.77	0.061	0.01	1.21	0.20	0.042	6.77	2.23	0.36
3670	683.	5.14	0.75	0.045	0.01	1.26	0.18	0.052	7.61	2.22	0.32
3671	632.	4.94	0.78	0.054	0.01	1.21	0.19	0.041	6.49	1.84	0.29
3672	734.	5.45	0.74	0.067	0.01	0.96	0.13	0.044	5.99	2.12	0.29
3673	634.	5.24	0.83	0.063	0.01	1.08	0.17	0.037	5.84	1.38	0.22
3674	668.	4.65	0.70	0.056	0.01	1.02	0.15	0.038	5.69	1.83	0.27
3675	599.	5.05	0.84	0.061	0.01	1.05	0.18	0.039	6.51	1.96	0.33
3676	691.	5.74	0.83	0.078	0.01	0.94	0.14	0.039	5.64	1.78	0.26
3677	678.	5.92	0.87	0.044	0.01	1.04	0.15	0.042	6.19	1.89	0.28
3678	657.	5.37	0.82	0.081	0.01	1.13	0.17	0.046	7.00	2.08	0.32
3679	677.	6.06	0.90	0.070	0.01	1.09	0.16	0.037	5.46	1.86	0.27
3680	667.	5.16	0.77	0.051	0.01	1.21	0.18	0.044	6.60	1.82	0.27
3681	592.	4.75	0.80	0.051	0.01	1.03	0.17	0.031	5.24	1.68	0.28
3682	720.	5.93	0.82	0.072	0.01	1.29	0.18	0.046	6.39	2.03	0.28
3683	631.	5.23	0.83	0.060	0.01	1.15	0.18	0.047	7.45	1.79	0.28
3684	668.	5.58	0.84	0.066	0.01	0.99	0.15	0.018b	2.69b	1.75	0.26
3685	681.	5.72	0.84	0.060	0.01	1.33	0.20	0.047	6.90	2.21	0.32
3686	731.	5.61	0.77	0.073	0.01	1.23	0.17	0.048	6.57	2.00	0.27
3687	533.	4.57	0.86	0.083	0.02	1.06	0.20	0.036	6.75	1.79	0.34
3688	606.	5.25	0.87	0.070	0.01	1.07	0.18	0.044	7.26	1.88	0.31
3689	654.	5.18	0.79	0.060	0.01	1.14	0.17	0.033	5.04	1.81	0.28
3690	784.	6.28	0.80	0.065	0.01	1.02	0.13	0.046	5.87	2.35	0.30

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 10): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
3691	582.	0.7382	0.13	0.3170	0.05	1.7877	0.31	1.6001	0.27	1.8854	0.32	1.3069	0.22
3692	639.	0.7156	0.11	0.3343	0.05	1.8843	0.29	1.7679	0.28	1.3810	0.22	0.8098	0.13
3693	609.	0.7785	0.13	0.2883	0.05	1.8702	0.31	1.7415	0.28	2.1257	0.35	0.9886	0.16
3694	644.	0.7867	0.12	0.3951	0.06	1.8651	0.29	1.7346	0.27	1.8158	0.28	0.9755	0.15
3695	649.	0.8717	0.13	0.4248	0.06	1.9066	0.29	1.7788	0.27	2.2363	0.34	1.1297	0.17
3696	619.	0.7927	0.13	0.3517	0.06	2.0813	0.34	1.9631	0.32	2.1990	0.36	1.2339	0.20
3697	639.	0.8600	0.13	0.3818	0.06	1.9887	0.31	1.8175	0.28	2.0490	0.32	1.0678	0.17
3698a	---	0.4800	----	b	----	1.5900	----	b	----	0.9300	----	0.5200	----
3699	592.	0.7785	0.13	0.3732	0.06	1.9893	0.34	1.8169	0.31	2.0157	0.34	1.0628	0.18
3700	755.	0.9324	0.12	0.4237	0.06	1.9166	0.25	1.7257	0.23	1.6397	0.22	0.8578	0.11
3701	716.	0.8070	0.11	0.3563	0.05	1.6932	0.24	1.5662	0.22	2.0557	0.29	1.1360	0.16
3702	648.	0.9305	0.14	0.4328	0.07	2.0075	0.31	1.7937	0.28	1.4227	0.22	0.8763	0.14
3703	660.	0.9653c	0.15	0.4178	0.06	2.2200	0.34	1.7989	0.27	2.3662	0.36	1.2410	0.19
3704	661.	0.8261	0.12	0.3801	0.06	1.9283	0.29	1.5892	0.24	1.2887	0.19	0.9887	0.15
3705	635.	0.7149	0.11	0.3429	0.05	1.8492	0.29	1.7243	0.27	1.3752	0.22	0.6997	0.11
3706	529.	0.7817	0.15	0.3630	0.07	1.6332	0.31	1.4807	0.28	1.5493	0.29	0.9467	0.18
3707	491.	0.7462	0.15	0.3185	0.06	1.8212	0.37	1.6693	0.34	1.4517	0.30	0.8401	0.17
3708	684.	0.7299	0.11	0.3569	0.05	1.6744	0.24	1.2756	0.19	1.2348	0.18	0.7750	0.11
3709	591.	0.7203	0.12	0.3223	0.05	1.4770	0.25	1.3702	0.23	1.7406	0.29	0.9862	0.17
3710	598.	0.8295	0.14	0.3762	0.06	1.8534	0.31	1.6874	0.28	2.1590	0.36	1.1201	0.19
3711	615.	0.7930	0.13	0.3531	0.06	1.8416	0.30	1.6487	0.27	1.6370	0.27	0.7867	0.13
3712	690.	0.8633	0.12	0.3774	0.05	2.0246	0.29	1.8131	0.26	1.7027	0.25	0.9225	0.13
3713	672.	0.8249	0.12	0.3659	0.05	2.0754	0.31	1.8594	0.28	1.4995	0.22	0.7598	0.11
3714	734.	0.7934	0.11	0.4143	0.06	1.9843	0.27	1.8089	0.25	2.1223	0.29	1.0340	0.14
3715	662.	0.8558	0.13	0.4531	0.07	1.7664	0.27	1.6215	0.24	1.8700	0.28	1.1186	0.17
3716	632.	0.8158	0.13	0.3834	0.06	1.9603	0.31	1.7753	0.28	2.0676	0.33	1.1229	0.18
3717	595.	0.7277	0.12	0.3685	0.06	1.8165	0.30	1.5179	0.26	1.6436	0.28	0.9743	0.16
3718	670.	0.8876	0.13	0.4255	0.06	2.0532	0.31	1.9104	0.28	1.7775	0.26	1.0809	0.16
3719	626.	0.7435	0.12	0.3450	0.06	1.8011	0.29	1.5453	0.25	2.1196	0.34	1.2285	0.20
3720	610.	0.8365	0.14	0.4029	0.07	1.8518	0.30	1.1995	0.20	1.7306d	0.28d	1.2246	0.20

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Rat 3698 was moribund sacrificed on day 40 of study; values excluded from group averages and statistical analyses.
b. Value was not recorded.
c. Damaged during processing (weight not affected).
d. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 11): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % TBW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % TBW	PROSTATE ABS. WT.	PROSTATE REL. % TBW	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
3691	582.	0.7869	0.14	1.7918	0.31	0.7375	0.13	0.017	2.92	2.39	0.41	22.07	3.79
3692	639.	0.7163	0.11	1.8320	0.29	0.4588	0.07	0.013	2.03	2.24	0.35	26.17	4.10
3693	609.	0.8015	0.13	1.8885	0.31	1.0873	0.18	0.007	1.15	2.36	0.39	26.50	4.35
3694	644.	0.8143	0.13	1.8663	0.29	0.8888	0.14	0.017	2.64	2.37	0.37	33.42	5.19
3695	649.	0.9150	0.14	2.0204	0.31	0.5676	0.09	0.018	2.77	2.48	0.38	24.25	3.74
3696	619.	0.7914	0.13	2.0082	0.32	0.5568	0.09	0.008	1.29	2.25	0.36	26.79	4.33
3697	639.	0.8868	0.14	1.9500	0.30	0.6559	0.10	0.015	2.35	2.26	0.35	23.00	3.60
3698b	---	0.5200	----	1.6500	----	0.9300	----	0.013	----	2.14c	----	18.37	----
3699	592.	0.7476	0.13	1.9318	0.33	0.5384	0.09	0.013	2.20	2.50	0.42	22.05	3.72
3700	755.	0.8481c	0.11	1.9706	0.26	0.9245	0.12	0.014	1.85	2.23	0.30	31.18	4.13
3701	716.	0.8475	0.12	1.7288	0.24	0.7984	0.11	0.014	1.96	2.43	0.34	30.06	4.20
3702	648.	0.8962	0.14	1.9037	0.29	0.6719	0.10	0.021	3.24	2.44	0.38	25.71	3.97
3703	660.	0.9021	0.14	2.2057	0.33	0.7457	0.11	0.012	1.82	2.32	0.35	24.75	3.75
3704	661.	0.8303	0.12	1.9677	0.30	0.6551	0.10	0.017	2.57	2.39	0.36	25.30	3.83
3705	635.	0.8054	0.13	1.8835	0.30	0.7795	0.12	0.014	2.20	2.45	0.38	20.22	3.18
3706	529.	0.8247	0.16	1.6118	0.30	0.8757	0.16	0.015	2.84	2.22	0.42	19.58	3.70
3707	491.	0.7647	0.16	1.8396	0.37	0.7432	0.15	0.012	2.44	2.21	0.45	18.78	3.82
3708	684.	0.7997	0.12	1.8071	0.26	0.7867	0.12	0.013	1.90	2.48	0.36	27.67	4.04
3709	591.	0.7380	0.12	1.6192	0.27	0.4965	0.08	0.010	1.69	2.25	0.38	20.68	3.50
3710	598.	0.8909	0.15	1.9259	0.32	0.4158	0.07	0.014	2.34	2.41	0.40	23.46	3.92
3711	615.	0.8425	0.14	1.8486	0.30	0.7378	0.12	0.008	1.30	2.40	0.39	21.98	3.57
3712	690.	0.9369	0.14	2.1584	0.31	0.7207	0.10	0.012	1.74	2.54	0.37	26.42	3.83
3713	672.	0.8322	0.12	2.0749	0.31	0.7973	0.12	0.011	1.64	2.30	0.34	25.88	3.85
3714	734.	0.7973	0.11	1.9109	0.26	0.6391	0.09	0.016	2.18	2.43	0.33	27.81	3.79
3715	662.	0.8494	0.13	1.8826	0.28	0.4665	0.07	0.017	2.57	2.42	0.36	26.60	4.02
3716	632.	0.7774	0.12	1.9490	0.31	0.8587	0.14	0.014	2.22	2.32	0.37	24.69	3.91
3717	595.	0.8269	0.14	1.7641	0.30	0.7804	0.13	0.024	4.03	2.20	0.37	21.90	3.68
3718	670.	0.8597	0.13	1.9361	0.29	0.6903	0.10	0.018	2.69	2.25	0.34	28.28	4.22
3719	626.	0.7527	0.12	1.7689	0.28	0.6938	0.11	0.013	2.08	2.34	0.37	23.90	3.82
3720	610.	0.7967	0.13	1.9086	0.31	0.6886	0.11	0.014	2.30	2.41	0.40	28.24	4.63

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Rat 3698 was moribund sacrificed on day 40 of study; values excluded from group averages and statistical analyses.
c. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B22 (PAGE 12): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY					
3691	582.	4.99	0.86	0.047	0.01	1.22	0.21	0.053	9.11	1.74	0.30
3692	639.	6.46	1.01	0.068	0.01	1.13	0.18	0.028	4.38	2.17	0.34
3693	609.	5.30	0.87	0.052	0.01	1.12	0.18	0.057	9.36	1.83	0.30
3694	644.	5.74	0.89	0.053	0.01	0.97	0.15	0.047	7.30	2.01	0.31
3695	649.	6.14	0.95	0.064	0.01	1.19	0.18	0.048	7.40	1.90	0.29
3696	619.	5.48	0.88	0.046	0.01	1.28	0.21	0.049	7.92	2.45	0.40
3697	639.	5.02	0.78	0.076	0.01	0.73	0.11	0.051	7.98	1.68	0.26
3698b	---	3.75	----	0.067	----	0.77	----	0.045	----	1.48	----
3699	592.	4.64	0.78	0.071	0.01	1.08	0.18	0.068	11.49	1.76	0.30
3700	755.	5.77	0.76	0.042	0.00	1.16	0.15	0.050	6.62	2.15	0.28
3701	716.	5.65	0.79	0.038	0.00	1.14	0.16	0.057	7.96	2.31	0.32
3702	648.	5.73	0.88	0.093	0.01	1.05	0.16	0.054	8.33	1.91	0.29
3703	660.	4.67	0.71	0.064	0.01	1.11	0.17	0.061	9.24	2.11	0.32
3704	661.	5.21	0.79	0.055	0.01	1.04	0.16	0.048	7.26	1.95	0.30
3705	635.	5.05	0.80	0.058	0.01	0.93	0.15	0.042	6.61	1.79	0.28
3706	529.	4.71	0.89	0.055	0.01	0.93	0.18	0.054	10.21	1.43	0.27
3707	491.	4.39	0.89	0.053	0.01	1.07	0.22	0.046	9.37	1.85	0.38
3708	684.	5.31	0.78	0.074	0.01	1.19	0.17	0.045	6.58	1.92	0.28
3709	591.	4.69	0.79	0.048	0.01	0.82	0.14	0.046	7.78	1.57	0.26
3710	598.	4.98	0.83	0.046	0.01	0.85	0.14	0.052	8.70	1.52	0.25
3711	615.	4.60	0.75	0.054	0.01	1.11	0.18	0.048	7.80	1.66	0.27
3712	690.	6.36	0.92	0.075	0.01	2.43c	0.35c	0.048	6.96	1.77	0.26
3713	672.	5.25	0.78	0.058	0.01	0.90	0.13	0.058	8.63	1.66	0.25
3714	734.	5.88	0.80	0.076	0.01	1.20	0.16	0.057	7.76	2.06	0.28
3715	662.	4.85	0.73	0.076	0.01	1.04	0.16	0.058	8.76	2.00	0.30
3716	632.	4.80	0.76	0.068	0.01	0.91	0.14	0.057	9.02	1.92	0.30
3717	595.	5.67	0.95	0.055	0.01	1.52	0.26	0.049	8.24	1.72	0.29
3718	670.	5.98	0.89	0.069	0.01	0.99	0.15	0.049	7.31	1.84	0.27
3719	626.	5.01	0.80	0.051	0.01	1.13	0.18	0.056	8.94	2.05	0.33
3720	610.	5.81	0.95	0.038	0.01	0.97	0.16	0.046	7.54	1.81	0.30

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Rat 3698 was moribund sacrificed on day 40 of study; values excluded from group averages and statistical analyses.

c. Rat 3712 had a large spleen; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 1): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
3601	2.20	0.7342	33.37	0.2825	12.84	1.8581	84.46	1.7488	79.49	1.7916	81.44	0.8594	39.06
3602	2.20	0.8142	37.01	0.4099	18.63	2.0016	90.98	1.8822	85.55	1.3989	63.59	0.6710	30.50
3603	2.48	0.7297	29.42	0.3439	13.87	1.7163	69.20	1.5578	62.81	2.2750	91.73	1.1168	45.03
3604	2.27	0.8043	35.43	0.4057	17.87	1.9188	84.53	1.7808	78.45	1.7407	76.68	0.8712	38.38
3605	2.27	0.7689	33.87	0.4469	19.69	1.7527	77.21	1.6173	71.25	1.4980	65.99	0.8500	37.44
3606	2.57	0.7341	28.56	0.3456	13.45	1.7629	68.60	1.6370	63.70	2.3665	92.08	1.3139	51.12
3607	2.70	0.7512	27.82	0.3680	13.63	1.9043	70.53	1.7523	64.90	2.0239	74.96	1.0889	40.33
3608	2.44	0.8474	34.73	0.3933	16.12	2.0655	84.65	1.8861	77.30	2.1822	89.43	1.1085	45.43
3609	2.48	0.8281	33.39	0.3861	15.57	1.9172	77.31	1.7514	70.62	1.9389	78.18	1.0452	42.14
3610	2.42	0.9068	37.47	0.4436	18.33	1.9528	80.69	1.7606	72.75	2.0012	82.69	0.9835	40.64
3611	2.27	0.6931	30.53	0.3330	14.67	1.8806	82.84	1.7546	77.30	2.2212	97.85	1.0466	46.10
3612	2.34	0.9616	41.09	0.4170	17.82	1.8671	79.79	1.7034	72.79	2.2927	97.98	1.2624	53.95
3613	2.28	0.8320	36.49	0.3605	15.81	2.0202	88.60	1.8296	80.24	1.1417	50.07	0.6648	29.16
3614	2.29	0.9022	39.40	0.4188	18.29	1.6541	72.23	1.5081	65.86	1.9098	83.40	1.2676	55.35
3615	2.10	0.6537	31.13	0.2865	13.64	1.5918	75.80	1.4658	69.80	1.3449	64.04	0.7236	34.46
3616	2.26	0.8714	38.56	0.3714	16.43	1.8488	81.80	1.6903	74.79	1.6201	71.68	0.8994	39.80
3617	2.46	0.8889	36.13	0.3909	15.89	2.0032	81.43	1.8187	73.93	1.5526	63.11	0.8736	35.51
3618	2.27	0.8422	37.10	0.4141	18.24	1.8216	80.25	1.6920	74.54	1.5416	67.91	0.8711	38.37
3619	2.18	0.8289	38.02	0.3411	15.65	1.8163	83.32	1.6903	77.54	1.3371	61.33	0.8528	39.12
3620	2.29	0.8271	36.12	0.4160	18.16	1.9717	86.10	1.8156	79.28	1.6319	71.26	0.7580	33.10
3621	2.46	0.8219	33.41	0.4489	18.25	1.9721	80.17	1.6871	68.58	1.2685	51.56	0.9363	38.06
3622	2.36	0.8476	35.92	0.3958	16.77	1.8950	80.30	1.7096	72.44	1.7890	75.80	1.0816	45.83
3623	2.46	0.8160	33.17	0.3818	15.52	1.9629	79.79	1.7926	72.87	1.4028	57.02	0.6617	26.90
3624	2.35	0.7757	33.01	0.3765	16.02	1.8548	78.93	1.6651	70.86	2.1222	90.31	1.4119	60.08
3625	2.31	0.7518	32.54	0.3456	14.96	1.7148	74.23	1.5990	69.22	2.0394	88.28	1.0721	46.41
3626a	2.39	0.97	----			1.98	----						
3627	2.52	0.8544	33.90	0.4073	16.16	2.1181	84.05	1.8217	72.29	2.1581	85.64	1.1682	46.36
3628	2.42	0.8499	35.12	0.3964	16.38	2.2842	94.39	2.0261	83.72	1.4392	59.47	0.9777	40.40
3629	2.41	0.8256	34.26	0.3966	16.46	2.0211	83.86	1.8824	78.11	1.5974	66.28	1.1010	45.68
3630	2.24	0.8136	36.32	0.3705	16.54	1.7766	79.31	1.0759	48.03	1.9229	85.84	1.1368	50.75

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Rat 3626 was found dead on day 80 of study; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 2): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
3601	2.20	0.7040	32.00	1.8707	85.03	0.5328	24.22	0.016	0.73	24.36	1107.27	4.90	222.73
3602	2.20	0.8433	38.33	2.0323	92.38	0.6189	28.13	0.015	0.68	23.48a	1067.27	5.77	262.27
3603	2.48	0.7303	29.45	1.7193	69.33	0.7137	28.78	0.016	0.64	21.11	851.21	4.79	193.14
3604	2.27	0.8105	35.70	2.0764	91.47	0.7634	33.63	0.012	0.53	25.16	1108.37	4.56	200.88
3605	2.27	0.7637	33.64	1.6820	74.10	0.6274	27.64	0.013	0.57	19.83	873.57	4.94	217.62
3606	2.57	0.7866	30.61	1.7760	69.10	0.5468	21.28	0.019	0.74	26.40	1027.24	3.47	135.02
3607	2.70	0.8726	32.32	2.0298	75.18	0.8453	31.31	0.007	0.26	21.23	786.30	6.03	223.33
3608	2.44	0.8460	34.67	2.0804	85.26	0.5407	22.16	0.012	0.49	27.02	1107.38	6.25	256.15
3609	2.48	0.8483	34.20	1.7818	71.85	0.7463	30.09	0.015	0.60	24.08	970.97	4.70	189.52
3610	2.42	0.8949	36.98	1.9425	80.27	0.6026	24.90	0.015	0.62	27.49	1135.95	6.49	268.18
3611	2.27	0.7164	31.56	1.9356	85.27	0.8672	38.20	0.012	0.53	22.41	987.22	5.40	237.88
3612	2.34	0.8375	35.79	1.8563	79.33	0.4827	20.63	0.014	0.60	25.25	1079.06	4.76	203.42
3613	2.28	0.7862	34.48	2.0302	89.04	0.8518	37.36	0.007	0.31	25.82	1132.46	5.00	219.30
3614	2.29	0.8798	38.42	1.7135	74.82	0.7011	30.62	0.012	0.52	23.36	1020.09	4.94	215.72
3615	2.10	0.6257	29.80	1.5848	75.47	0.9246	44.03	0.009	0.43	19.53	930.00	4.32	205.71
3616	2.26	0.8271	36.60	1.8570	82.17	0.7096	31.40	0.017	0.75	31.04	1373.45	4.96	219.47
3617	2.46	0.8565	34.82	2.0587	83.69	0.8538	34.71	0.009	0.36	29.92	1216.26	5.61	228.05
3618	2.27	0.8583	37.81	1.8020	79.38	0.9766	43.02	0.012	0.53	22.33	983.70	5.19	228.63
3619	2.18	0.7842	35.97	1.7977	82.46	0.7265	33.32	0.012	0.55	28.69	1316.05	5.24	240.37
3620	2.29	0.8871	38.74	1.9505	85.17	1.0378	45.32	0.014	0.61	26.16	1142.36	5.82	254.15
3621	2.46	0.9154	37.21	1.9921	80.98	0.7713	31.35	0.015	0.61	25.92	1053.66	5.68	230.89
3622	2.36	0.8292	35.14	1.8886	80.02	1.0606	44.94	0.014	0.59	35.27	1494.49	6.34	268.64
3623	2.46	0.8344	33.92	1.9481	79.19	0.6822	27.73	0.013	0.53	22.11	898.78	4.26	173.17
3624	2.35	0.8321	35.41	1.8246	77.64	0.6469	27.53	0.014	0.60	29.40	1251.06	5.64	240.00
3625	2.31	0.7667	33.19	1.7238	74.62	0.8926	38.64	0.012	0.52	28.96	1253.68	5.17	223.81
3626b	2.39	0.85	----	1.91	----			0.011	----	26.29	----	5.65	------
3627	2.52	0.7625	30.26	2.0615	81.80	0.9711	38.54	0.014	0.56	27.24	1080.95	6.15	244.05
3628	2.42	0.7973	32.95	2.2931	94.76	0.7769	32.10	0.016	0.66	24.66	1019.01	5.89	243.39
3629	2.41	0.9547	39.61	2.2323	92.63	0.6747	28.00	0.022	0.91	25.88	1073.86	5.23	217.01
3630	2.24	0.8266	36.90	1.7204	76.80	0.7750	34.60	0.022	0.98	22.64	1010.71	5.07	226.34

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Damaged during processing (weight not affected).

b. Rat 3626 was found dead on day 80 of study; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 3): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY			
3601	2.20	0.061	2.77	1.04	47.27	0.041	1.86	1.99	90.45
3602	2.20	0.082	3.73	0.98	44.54	0.036	1.64	1.87	85.00
3603	2.48	0.064	2.58	0.92	37.10	0.035	1.41	1.85	74.60
3604	2.27	0.045	1.98	0.93	40.97	0.034	1.50	1.80	79.30
3605	2.27	0.051	2.25	1.04	45.81	0.037	1.63	2.02	88.99
3606	2.57	0.090	3.50	1.25	48.64	0.040	1.56	2.11	82.10
3607	2.70	0.057	2.11	1.13	41.85	0.040	1.48	2.16	80.00
3608	2.44	0.086	3.52	1.04	42.62	0.034	1.39	2.05	84.02
3609	2.48	0.071	2.86	1.11	44.76	0.033	1.33	1.93	77.82
3610	2.42	0.066	2.73	1.23	50.83	0.047	1.94	2.42	100.00
3611	2.27	0.050	2.20	1.12	49.34	0.037	1.63	1.80	79.30
3612	2.34	0.061	2.61	0.91	38.89	0.033	1.41	2.46	105.13
3613	2.28	0.058	2.54	1.09	47.81	0.039	1.71	1.76	77.19
3614	2.29	0.042	1.83	1.08	47.16	0.040	1.75	1.79	78.16
3615	2.10	0.069	3.28	0.93	44.28	0.034	1.62	1.54	73.33
3616	2.26	0.066	2.92	0.91	40.26	0.035	1.55	1.90	84.07
3617	2.46	0.075	3.05	1.30	52.84	0.048	1.95	2.24	91.06
3618	2.27	0.076	3.35	0.97	42.73	0.039	1.72	1.84	81.06
3619	2.18	0.048	2.20	1.02	46.79	0.038	1.74	1.69	77.52
3620	2.29	0.066	2.88	0.96	41.92	0.045	1.96	1.97	86.03
3621	2.46	0.054	2.20	1.11	45.12	0.046	1.87	1.85	75.20
3622	2.36	0.067	2.84	1.17	49.58	0.043	1.82	2.14	90.68
3623	2.46	0.072	2.93	0.98	39.84	0.032	1.30	1.71	69.51
3624	2.35	0.068	2.89	1.01	42.98	0.040	1.70	1.84	78.30
3625	2.31	0.048	2.08	1.05	45.45	0.045	1.95	1.92	83.12
3626a	2.39	0.078	----	0.84	----	0.043	0.00	1.99	----
3627	2.52	0.088	3.49	1.16	46.03	0.041	1.63	1.71	67.86
3628	2.42	0.070	2.89	0.94	38.84	0.043	1.78	1.98	81.82
3629	2.41	0.083	3.44	1.20	49.79	0.043	1.78	1.85	76.76
3630	2.24	0.050	2.23	0.95	42.41	0.040	1.78	1.87	83.48

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Rat 3626 was found dead on day 80 of study; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 4): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 2					0.3 MG/KG/DAY								
3631	2.23	0.6598	29.59	0.3077	13.80	1.7935	80.43	1.6397	73.53	2.0435	91.64	0.9635	43.21
3632	2.42	0.9422	38.93	0.4033	16.66	2.0423	84.39	1.8614	76.92	2.2389	92.52	1.1853	48.98
3633	2.33	0.8356	35.86	0.3617	15.52	2.0117	86.34	1.8751	80.48	2.1765	93.41	1.2295	52.77
3634	2.50	0.7592	30.37	0.3748	14.99	1.5933	63.73	1.4945	59.78	2.1197	84.79	1.1273	45.09
3635	2.33	0.8830	37.90	0.4652	19.96	1.7887	76.77	1.6650	71.46	1.6257	69.77	0.9684	41.56
3636	2.64	0.9123	34.56	0.4243	16.07	2.0761	78.64	1.9493	73.84	1.5680	59.39	0.8736	33.09
3637	2.21	0.7254	32.82	0.3510	15.88	1.8807	85.10	1.7711	80.14	2.1196	95.91	1.1899	53.84
3638	2.40	0.7817	32.57	0.3936	16.40	1.9631	81.80	1.8305	76.27	1.6963	70.68	0.8769	36.54
3639	2.47	0.6835a	27.67a	0.4011a	16.24a	1.1661	47.21	1.0168	41.16	1.6332	66.12	0.8822	35.72
3640	2.46	0.7998	32.51	0.3907	15.88	1.8925	76.93	1.6579	67.39	1.7646	71.73	0.9927	40.35
3641	2.68	0.8408	31.37	0.4244	15.84	1.8822	70.23	1.7077	63.72	1.9875	74.16	1.2144	45.31
3642	2.11	0.8688	41.18	0.3918	18.57	1.8686	88.56	1.7794	84.33	2.0266	96.05	1.0243	48.54
3643	2.12	0.8340	39.34	0.3837	18.10	1.9570	92.31	1.7567	82.86	1.7781	83.87	0.9684	45.68
3644	2.61	0.8111	31.08	0.3489	13.37	2.0631	79.04	1.8765	71.90	1.6805	64.39	0.9601	36.78
3645	2.39	0.8149	34.10	0.3671	15.36	1.8793	78.63	1.6817	70.36	1.5008	62.79	0.8576	35.88
3646	2.31	0.8636	37.38	0.3774	16.34	1.9778	85.62	1.6390	70.95	1.8139	78.52	1.0556	45.70
3647	2.55	0.8365	32.80	0.3987	15.64	2.0424	80.09	1.8938	74.27	1.5135	59.35	1.1756	46.10
3648	2.36	0.7929	33.60	0.3727	15.79	2.0047	84.94	1.8121	76.78	1.8330	77.67	1.0293	43.61
3649	2.38	0.9005	37.84	0.4260	17.90	2.0672	86.86	1.9036	79.98	1.2839	53.94	0.8048	33.82
3650	2.47	0.8260	33.44	0.3791	15.35	1.9835	80.30	1.8555	75.12	1.5228	61.65	0.7866	31.85
3651	2.33	0.6896	29.60	0.3707	15.91	1.7217	73.89	1.4376	61.70	1.5818	67.89	0.8653	37.14
3652	2.39	0.9125	38.18	0.4535	18.97	1.9247	80.53	1.7120	71.63	1.2660	52.97	0.7568	31.66
3653	2.31	0.8375	36.26	0.3805	16.47	1.7705	76.64	1.5974	69.15	1.6551	71.65	0.9787	42.37
3654	2.23	0.8294	37.19	0.4266	19.13	1.9769	88.65	1.8320	82.15	2.0634	92.53	1.0733	48.13
3655	2.41	0.8174	33.92	0.3847	15.96	1.8935	78.57	1.7349	71.99	1.2902	53.54	0.6914	28.69
3656	2.28	0.6586	28.88	0.2970	13.03	1.7213	75.50	1.6083	70.54	1.3320	58.42	0.7934	34.80
3657	2.64	0.8133	30.81	0.4454	16.87	2.0476	77.56	1.7941	67.96	1.5894	60.20	0.8616	32.64
3658	2.47	0.7350	29.76	0.3908	15.82	1.5435	62.49	1.2846	52.01	1.1268	45.62	0.7385b	29.90
3659	2.45	0.8796	35.90	0.3658	14.93	1.9810	80.86	1.6650	67.96	1.4396	58.76	0.7856	32.06
3660	2.52	0.8004	31.76	0.3715	14.74	2.1831	86.63	1.6368	64.95	1.4116	56.02	0.7925	31.45

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 3639 had a tan mass on the left cauda epididymis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 5): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
3631	2.23	0.7957	35.68	1.8667	83.71	1.1810	52.96	0.013	0.58	19.79	887.44	4.10	183.86
3632	2.42	0.8659	35.78	2.0364	84.15	0.6806	28.12	0.016	0.66	32.66	1349.59	6.65	274.79
3633	2.33	0.8391	36.01	1.9791	84.94	0.6931	29.75	0.014	0.60	21.09	905.15	5.63	241.63
3634	2.50	0.7505	30.02	1.6676	66.70	0.8439	33.76	0.012	0.48	31.08	1243.20	6.27	250.80
3635	2.33	0.8912	38.25	1.7929	76.95	0.8948	38.40	0.012	0.52	25.90	1111.59	4.89	209.87
3636	2.64	0.9174	34.75	2.1523	81.53	0.8968	33.97	0.013	0.49	24.90	943.18	6.01	227.65
3637	2.21	0.7969	36.06	1.8611	84.21	0.7225	32.69	0.030	1.36	29.22	1322.17	6.82	308.60
3638	2.40	0.7904	32.93	1.9912	82.97	0.7060	29.42	0.014	0.58	32.86	1369.17	2.94	122.50
3639	2.47	0.6130	24.82	0.8784a	35.56a	1.0370	41.98	0.021	0.85	24.19	979.35	4.95	200.40
3640	2.46	0.8649	35.16	1.8488	75.15	0.6186	25.15	0.018	0.73	22.23	903.66	5.22	212.20
3641	2.68	0.7718	28.80	1.9416	72.45	0.8820	32.91	0.014	0.52	23.82	888.81	6.02	224.63
3642	2.11	0.8394	39.78	1.8979	89.95	0.5797	27.47	0.012	0.57	30.40	1440.76	5.49	260.19
3643	2.12	0.8347	39.37	1.9962	94.16	0.5764	27.19	0.011	0.52	29.74	1402.83	4.73	223.11
3644	2.61	0.8890b	34.06	1.9249	73.75	0.6803	26.06	0.014	0.54	28.76	1101.92	5.78	221.46
3645	2.39	0.7872b	32.94	2.0000	83.68	0.6552	27.41	0.016	0.67	23.85	997.91	5.61	234.73
3646	2.31	0.8160	35.32	1.9123	82.78	0.9102	39.40	0.014	0.61	37.74	1633.77	6.53	282.68
3647	2.55	0.9088	35.64	2.1231	83.26	0.8414	33.00	0.016	0.63	24.41	957.25	5.34	209.41
3648	2.36	0.8272	35.05	2.0343	86.20	0.5474	23.19	0.014	0.59	24.06	1019.49	5.49	232.63
3649	2.38	0.9211	38.70	2.0548	86.34	0.6847	28.77	0.015	0.63	26.14	1098.32	4.97	208.82
3650	2.47	0.7758	31.41	2.0880	84.53	0.3708	15.01	0.012	0.48	28.01	1134.01	5.80	234.82
3651	2.33	0.7262	31.17	1.7110	73.43	0.7287	31.27	0.018	0.77	21.02	902.14	5.33	228.76
3652	2.39	0.9744	40.77	1.9121	80.00	0.5325	22.28	0.012	0.50	22.97	961.09	5.74	240.17
3653	2.31	0.8288	35.88	1.7300	74.89	0.6948	30.08	0.011	0.48	20.34	880.52	5.45	235.93
3654	2.23	0.8108	36.36	2.0244	90.78	0.5354	24.01	0.015	0.67	37.18	1667.26	6.03	270.40
3655	2.41	0.8188	33.98	1.9246	79.86	0.5861	24.32	0.015	0.62	22.52	934.44	4.85	201.24
3656	2.28	0.8015	35.15	1.7609	77.23	0.4819	21.14	0.009	0.39	27.11	1189.04	5.56	243.86
3657	2.64	0.9205	34.87	2.0123	76.22	0.6583	24.94	0.017	0.64	32.35	1225.38	5.61	212.50
3658	2.47	0.7547	30.55	1.5873	64.26	0.6573	26.61	0.016	0.65	20.96	848.58	4.70	190.28
3659	2.45	0.8578	35.01	1.9095	77.94	0.8387	34.23	0.021	0.86	24.27	990.61	5.71	233.06
3660	2.52	0.8835	35.06	2.1791	86.47	0.5269	20.91	0.012	0.48	29.08	1153.97	5.53	219.44

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 3639 had a small right testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 6): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 2						0.3 MG/KG/DAY			
3631	2.23	0.065	2.91	0.90	40.36	0.042	1.88	1.64	73.54
3632	2.42	0.078	3.22	0.95	39.26	0.050	2.07	2.34	96.69
3633	2.33	0.053	2.27	1.52	65.24	0.044	1.89	1.96	84.12
3634	2.50	0.087	3.48	1.16	46.40	0.048	1.92	2.21	88.40
3635	2.33	0.034	1.46	1.19	51.07	0.044	1.89	1.68	72.10
3636	2.64	0.045	1.70	1.26	47.73	0.040	1.52	2.03	76.89
3637	2.21	0.063	2.85	1.70	76.92	0.035	1.58	2.76	124.89
3638	2.40	0.043	1.79	1.04	43.33	0.039	1.62	2.26	94.17
3639	2.47	0.054	2.19	1.02	41.30	0.030	1.21	1.98	80.16
3640	2.46	0.062	2.52	1.02	41.46	0.027	1.10	1.81	73.58
3641	2.68	0.071	2.65	1.16	43.28	0.038	1.42	2.21	82.46
3642	2.11	0.064	3.03	1.21	57.34	0.048	2.27	1.93	91.47
3643	2.12	0.056	2.64	1.11	52.36	0.045	2.12	1.86	87.74
3644	2.61	0.096	3.68	1.35	51.72	0.035	1.34	1.98	75.86
3645	2.39	0.066	2.76	0.93	38.91	0.046	1.92	1.94	81.17
3646	2.31	0.062	2.68	1.13	48.92	0.046	1.99	2.20	95.24
3647	2.55	0.051	2.00	0.96	37.65	0.038	1.49	1.80	70.59
3648	2.36	0.060	2.54	1.00	42.37	0.042	1.78	1.78	75.42
3649	2.38	0.046	1.93	1.26	52.94	0.039	1.64	1.91	80.25
3650	2.47	0.053	2.14	1.26	51.01	0.040	1.62	2.10	85.02
3651	2.33	0.029	1.24	1.15	49.36	0.038	1.63	1.70	72.96
3652	2.39	0.071	2.97	1.09	45.61	a	----	1.86	77.82
3653	2.31	0.062	2.68	1.10	47.62	0.036	1.56	1.70	73.59
3654	2.23	0.074	3.32	1.10	49.33	0.050	2.24	1.78	79.82
3655	2.41	0.064	2.66	1.05	43.57	0.049	2.03	1.79	74.27
3656	2.28	0.069	3.03	1.24	54.38	0.036	1.58	1.78	78.07
3657	2.64	0.082	3.11	1.22	46.21	0.044	1.67	2.09	79.17
3658	2.47	0.066	2.67	1.01	40.89	0.036	1.46	1.68	68.02
3659	2.45	0.069	2.82	1.20	48.98	0.041	1.67	2.14	87.35
3660	2.52	0.071	2.82	1.25	49.60	0.044	1.75	1.97	78.17

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 7): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
3661	2.46	0.8065	32.78	0.3925	15.96	2.0887	84.91	1.9451	79.07	1.5548	63.20	0.8484	34.49
3662	2.49	0.8433	33.87	0.4063	16.32	1.8995	76.28	1.7645	70.86	1.5329	61.56	0.8558	34.37
3663	2.35	0.7656	32.58	0.3289	14.00	1.8932	80.56	1.7769	75.61	2.2250	94.68	1.2438	52.93
3664	2.40	0.7723	32.18	0.4473	18.64	1.7512	72.97	1.6254	67.72	1.8874	78.64	1.0579	44.08
3665	2.34	0.8071	34.49	0.3475	14.85	1.8540	79.23	1.7174	73.39	1.6883	72.15	0.8906	38.06
3666	2.20	0.7044	32.02	0.3413	15.51	1.8669	84.86	1.7508	79.58	1.2111	55.05	0.6660	30.27
3667	2.46	0.8124	33.02	0.4405	17.91	1.9024	77.33	1.7820	72.44	2.0061	81.55	1.0765	43.76
3668	2.28	0.8448	37.05	0.4281	18.78	1.9670	86.27	1.8544	81.33	1.8393	80.67	0.8180	35.88
3669	2.44	0.8258	33.84	0.3937	16.14	1.9030	77.99	1.7319	70.98	1.6436	67.36	0.8941	36.64
3670	2.41	0.8871	36.81	0.3790	15.73	1.8302	75.94	1.6288	67.58	1.4468	60.03	0.7983	33.12
3671	2.38	0.4091a	17.19a	0.1700a	7.14a	0.8012a	33.66a	0.6196	26.03	1.5020	63.11	0.8761	36.81
3672	2.28	0.7984	35.02	0.3876	17.00	1.9595	85.94	1.7190	75.39	1.7562	77.03	0.9879	43.33
3673	2.30	0.8019	34.86	0.3802	16.53	1.7588	76.47	1.6460	71.56	1.6665	72.46	0.9425	40.98
3674	2.41	0.8206	34.05	0.4118	17.09	1.8316	76.00	1.6131	66.93	1.6245	67.41	0.8919	37.01
3675	2.35	0.8848	37.65	0.3590	15.28	1.7854	75.97	1.6549	70.42	2.1854	93.00	1.2653	53.84
3676	2.54	0.7704	30.33	0.3273	12.88	1.9094	75.17	1.7232	67.84	1.5733	61.94	0.9178	36.13
3677	2.26	0.7767	34.37	0.3000	13.27	2.0436	90.42	1.8361	81.24	1.8195	80.51	1.0477	46.36
3678	2.48	0.8210	33.10	0.3675	14.82	1.8663	75.25	1.6474	66.43	1.6894	68.12	0.9322	37.59
3679	2.39	0.7582	31.72	0.3528	14.76	1.8421	77.08	1.5259	63.84	2.0076	84.00	1.0219	42.76
3680	2.06b	0.8548	41.50	0.3943	19.14	2.0214	98.13	1.8150	88.11	1.7555	85.22	0.9475	46.00
3681	2.32	0.7996	34.46	0.3659	15.77	1.7651	76.08	1.5925	68.64	1.9708	84.95	1.0623	45.79
3682	2.53	0.9092b	35.94	0.3558	14.06	1.8114	71.60	1.6178	63.94	1.7878	70.66	1.0223	40.41
3683	2.24	0.8631	38.53	0.4146	18.51	1.9924	88.95	1.8149	81.02	1.9980	89.20	1.0844	48.41
3684	2.57	0.9227	35.90	0.4218	16.41	2.0593	80.13	1.9172	74.60	1.8963	73.78	1.0000	38.91
3685	2.44	0.8143	33.37	0.3871	15.86	2.0239	82.95	1.9090	78.24	1.8978	77.78	1.0085	41.33
3686	2.39	0.7942	33.23	0.4110	17.20	2.1472	89.84	1.9187	80.28	1.6969	71.00	0.9968	41.71
3687	2.28	0.7680	33.68	0.3606	15.82	1.8649	81.79	1.6687	73.19	1.4614	64.10	0.6951	30.49
3688	2.38	0.7883	33.12	0.3878	16.29	2.1173	88.96	1.9197	80.66	1.4132	59.38	0.9972	41.90
3689	2.43	0.8416	34.63	0.3862	15.89	1.8850	77.57	1.7684	72.77	1.1761c	48.40c	0.8095	33.31
3690	2.32	0.8253	35.57	0.4070	17.54	1.9825	85.45	1.6255	70.06	1.6611	71.60	1.1218	48.35

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 3671 had a small left epididymis and a small left testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

b. Damaged during processing (weight not affected).

c. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 8): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
3661	2.46	0.8199	33.33	2.0183	82.04	0.7398	30.07	0.014	0.57	25.09	1019.92	4.72	191.87
3662	2.49	0.8776	35.24	1.8495	74.28	0.7976	32.03	0.015	0.60	26.69	1071.89	5.45	218.88
3663	2.35	0.8434	35.89	1.9028	80.97	0.8529	36.29	0.012	0.51	33.31	1417.45	5.57	237.02
3664	2.40	0.7908	32.95	1.8384	76.60	1.0209	42.54	0.013	0.54	26.31	1096.25	5.46	227.50
3665	2.34	0.7398	31.62	1.9203	82.06	1.0778	46.06	0.012	0.51	25.80	1102.56	5.63	240.60
3666	2.20	0.7736	35.16	1.9674	89.43	0.4751	21.60	0.015	0.68	29.30	1331.82	5.97	271.36
3667	2.46	0.8228	33.45	1.8372	74.68	0.9242	37.57	0.026	1.06	35.10	1426.83	5.79	235.36
3668	2.28	0.7529	33.02	1.9976	87.61	0.9372	41.10	0.010	0.44	27.05	1186.40	5.02	220.18
3669	2.44	0.8659	35.49	1.8947	77.65	0.7658	31.38	0.013	0.53	28.36	1162.29	4.79	196.31
3670	2.41	0.7471	31.00	1.8409	76.38	0.6229	25.85	0.008	0.33	29.10	1207.47	5.14	213.28
3671	2.38	0.3871a	16.26a	0.8716a	36.62a	0.7381	31.01	0.012	0.50	25.95	1090.34	4.94	207.56
3672	2.28	0.7721	33.86	1.8864	82.74	0.8475	37.17	0.017	0.74	26.11	1145.18	5.45	239.04
3673	2.30	0.8342	36.27	1.7594	76.50	0.8092	35.18	0.017	0.74	25.97	1129.13	5.24	227.83
3674	2.41	0.8877	36.83	1.8370	76.22	0.6533	27.11	0.013	0.54	23.15	960.58	4.65	192.95
3675	2.35	0.7287	31.01	1.7557	74.71	0.8037	34.20	0.018	0.76	21.41	911.06	5.05	214.89
3676	2.54	0.8001	31.50	1.9898	78.34	0.7538	29.68	0.019	0.75	26.62	1048.03	5.74	225.98
3677	2.26	0.7871	34.83	2.0882	92.40	0.6524	28.87	0.017	0.75	28.31	1252.65	5.92	261.95
3678	2.48	0.8284	33.40	1.8982	76.54	0.6995	28.20	0.017	0.68	24.91	1004.44	5.37	216.53
3679	2.39	0.7479	31.29	1.7978	75.22	0.8410	35.19	0.010	0.42	24.29	1016.32	6.06	253.56
3680	2.06b	0.8250	40.05	1.9230	93.35	0.7306	35.47	0.015	0.73	29.09	1412.14	5.16	250.48
3681	2.32	0.7930	34.18	1.7511	75.48	0.4213	18.16	0.013	0.56	22.67	977.16	4.75	204.74
3682	2.53	0.9039	35.73	1.7831	70.48	0.5838	23.08	0.015	0.59	28.39	1122.13	5.93	234.39
3683	2.24	0.8922	39.83	2.0067	89.58	0.8440	37.68	0.012	0.54	26.61	1187.95	5.23	233.48
3684	2.57	0.9418	36.64	2.1554	83.87	0.8324	32.39	0.014	0.54	25.22	981.32	5.58	217.12
3685	2.44	0.8035	32.93	1.9878	81.47	0.5481	22.46	0.015	0.61	28.73	1177.46	5.72	234.43
3686	2.39	0.7730	32.34	2.0309	84.97	0.6462	27.04	0.014	0.58	29.17	1220.50	5.61	234.73
3687	2.28	0.7825	34.32	1.8308	80.30	0.9693	42.51	0.012	0.53	19.73	865.35	4.57	200.44
3688	2.38	0.9060	38.07	2.2093	92.83	0.6092	25.60	0.015	0.63	23.95	1006.30	5.25	220.59
3689	2.43	0.8199	33.74	1.9530	80.37	0.6286	25.87	0.013	0.53	24.67	1015.23	5.18	213.17
3690	2.32	0.8831	38.06	1.9500	84.05	0.6746	29.08	0.012	0.52	33.01	1422.84	6.28	270.69

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 3671 had a small right epididymis and a small right testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 9): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 3					3.0 MG/KG/DAY				
3661	2.46	0.055	2.24	1.08	43.90	0.046	1.87	1.85	75.20
3662	2.49	0.049	1.97	1.01	40.56	0.044	1.77	1.85	74.30
3663	2.35	0.060	2.55	1.40	59.57	0.047	2.00	2.08	88.51
3664	2.40	0.046	1.92	1.15	47.92	0.041	1.71	2.15	89.58
3665	2.34	0.061	2.61	1.01	43.16	0.040	1.71	1.98	84.62
3666	2.20	0.097	4.41	1.08	49.09	0.047	2.14	2.07	94.09
3667	2.46	0.058	2.36	0.98	39.84	0.046	1.87	1.81	73.58
3668	2.28	0.054	2.37	1.22	53.51	0.046	2.02	1.91	83.77
3669	2.44	0.061	2.50	1.21	49.59	0.042	1.72	2.23	91.39
3670	2.41	0.045	1.87	1.26	52.28	0.052	2.16	2.22	92.12
3671	2.38	0.054	2.27	1.21	50.84	0.041	1.72	1.84	77.31
3672	2.28	0.067	2.94	0.96	42.10	0.044	1.93	2.12	92.98
3673	2.30	0.063	2.74	1.08	46.96	0.037	1.61	1.38	60.00
3674	2.41	0.056	2.32	1.02	42.32	0.038	1.58	1.83	75.93
3675	2.35	0.061	2.60	1.05	44.68	0.039	1.66	1.96	83.40
3676	2.54	0.078	3.07	0.94	37.01	0.039	1.54	1.78	70.08
3677	2.26	0.044	1.95	1.04	46.02	0.042	1.86	1.89	83.63
3678	2.48	0.081	3.27	1.13	45.56	0.046	1.85	2.08	83.87
3679	2.39	0.070	2.93	1.09	45.61	0.037	1.55	1.86	77.82
3680	2.06b	0.051	2.48	1.21	58.74	0.044	2.14	1.82	88.35
3681	2.32	0.051	2.20	1.03	44.40	0.031	1.34	1.68	72.41
3682	2.53	0.072	2.84	1.29	50.99	0.046	1.82	2.03	80.24
3683	2.24	0.060	2.68	1.15	51.34	0.047	2.10	1.79	79.91
3684	2.57	0.066	2.57	0.99	38.52	0.018a	0.70a	1.75	68.09
3685	2.44	0.060	2.46	1.33	54.51	0.047	1.93	2.21	90.57
3686	2.39	0.073	3.05	1.23	51.46	0.048	2.01	2.00	83.68
3687	2.28	0.083	3.64	1.06	46.49	0.036	1.58	1.79	78.51
3688	2.38	0.070	2.94	1.07	44.96	0.044	1.85	1.88	78.99
3689	2.43	0.060	2.47	1.14	46.91	0.033	1.36	1.81	74.48
3690	2.32	0.065	2.80	1.02	43.96	0.046	1.98	2.35	101.29

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.
b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 10): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
3691	2.39	0.7382	30.89	0.3170	13.26	1.7877	74.80	1.6001	66.95	1.8854	78.89	1.3069	54.68
3692	2.24	0.7156	31.95	0.3343	14.92	1.8843	84.12	1.7679	78.92	1.3810	61.65	0.8098	36.15
3693	2.36	0.7785	32.99	0.2883	12.22	1.8702	79.24	1.7415	73.79	2.1257	90.07	0.9886	41.89
3694	2.37	0.7867	33.19	0.3951	16.67	1.8651	78.70	1.7346	73.19	1.8158	76.62	0.9755	41.16
3695	2.48	0.8717	35.15	0.4248	17.13	1.9066	76.88	1.7788	71.72	2.2363	90.17	1.1297	45.55
3696	2.25	0.7927	35.23	0.3517	15.63	2.0813	92.50	1.9631	87.25	2.1990	97.73	1.2339	54.84
3697	2.26	0.8600	38.05	0.3818	16.89	1.9887	88.00	1.8175	80.42	2.0490	90.66	1.0678	47.25
3698a	2.14b	0.4800	22.43	c	-----	1.5900	74.30	c	-----	0.9300	43.46	0.5200	24.30
3699	2.50	0.7785	31.14	0.3732	14.93	1.9893	79.57	1.8169	72.68	2.0157	80.63	1.0628	42.51
3700	2.23	0.9324	41.81	0.4237	19.00	1.9166	85.95	1.7257	77.38	1.6397	73.53	0.8578	38.47
3701	2.43	0.8070	33.21	0.3563	14.66	1.6932	69.68	1.5662	64.45	2.0557	84.60	1.1360	46.75
3702	2.44	0.9305	38.14	0.4328	17.74	2.0075	82.27	1.7937	73.51	1.4227	58.31	0.8763	35.91
3703	2.32	0.9653b	41.61	0.4178	18.01	2.2200	95.69	1.7989	77.54	2.3662	101.99	1.2410	53.49
3704	2.39	0.8261	34.56	0.3801	15.90	1.9283	80.68	1.5892	66.49	1.2887	53.92	0.9887	41.37
3705	2.45	0.7149	29.18	0.3429	14.00	1.8492	75.48	1.7243	70.38	1.3752	56.13	0.6997	28.56
3706	2.22	0.7817	35.21	0.3630	16.35	1.6332	73.57	1.4807	66.70	1.5493	69.79	0.9467	42.64
3707	2.21	0.7462	33.76	0.3185	14.41	1.8212	82.41	1.6693	75.53	1.4517	65.69	0.8401	38.01
3708	2.48	0.7299	29.43	0.3569	14.39	1.6744	67.52	1.2756	51.44	1.2348	49.79	0.7750	31.25
3709	2.25	0.7203	32.01	0.3223	14.32	1.4770	65.64	1.3702	60.90	1.7406	77.36	0.9862	43.83
3710	2.41	0.8295	34.42	0.3762	15.61	1.8534	76.90	1.6874	70.02	2.1590	89.58	1.1201	46.48
3711	2.40	0.7930	33.04	0.3531	14.71	1.8416	76.73	1.6487	68.70	1.6370	68.21	0.7867	32.78
3712	2.54	0.8633	33.99	0.3774	14.86	2.0246	79.71	1.8131	71.38	1.7027	67.04	0.9225	36.32
3713	2.30	0.8249	35.86	0.3659	15.91	2.0754	90.23	1.8594	80.84	1.4995	65.20	0.7598	33.03
3714	2.43	0.7934	32.65	0.4143	17.05	1.9843	81.66	1.8089	74.44	2.1223	87.34	1.0340	42.55
3715	2.42	0.8558	35.36	0.4531	18.72	1.7664	72.99	1.6215	67.00	1.8700	77.27	1.1186	46.22
3716	2.32	0.8158	35.16	0.3834	16.52	1.9603	84.50	1.7753	76.52	2.0676	89.12	1.1229	48.40
3717	2.20	0.7277	33.08	0.3685	16.75	1.8165	82.57	1.5179	69.00	1.6436	74.71	0.9743	44.29
3718	2.25	0.8876	39.45	0.4255	18.91	2.0532	91.25	1.9104	84.91	1.7775	79.00	1.0809	48.04
3719	2.34	0.7435	31.77	0.3450	14.74	1.8011	76.97	1.5453	66.04	2.1196	90.58	1.2285	52.50
3720	2.41	0.8365	34.71	0.4029	16.72	1.8518	76.84	1.1995	49.77	1.7306d	71.81d	1.2246	50.81

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 3698 was moribund sacrificed on day 40 of study; values excluded from group averages and statistical analyses.

b. Damaged during processing (weight not affected).

c. Value was not recorded.

d. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 11): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
3691	2.39	0.7869	32.92	1.7918	74.97	0.7375	30.86	0.017	0.71	22.07	923.43	4.99	208.79
3692	2.24	0.7163	31.98	1.8320	81.78	0.4588	20.48	0.013	0.58	26.17	1168.30	6.46	288.39
3693	2.36	0.8015	33.96	1.8885	80.02	1.0873	46.07	0.007	0.30	26.50	1122.88	5.30	224.58
3694	2.37	0.8143	34.36	1.8663	78.75	0.8888	37.50	0.017	0.72	33.42	1410.13	5.74	242.19
3695	2.48	0.9150	36.90	2.0204	81.47	0.5676	22.89	0.018	0.72	24.25	977.82	6.14	247.58
3696	2.25	0.7914	35.17	2.0082	89.25	0.5568	24.75	0.008	0.36	26.79	1190.67	5.48	243.56
3697	2.26	0.8868	39.24	1.9500	86.28	0.6559	29.02	0.015	0.66	23.00	1017.70	5.02	222.12
3698a	2.14b	0.5200	24.30	1.6500	77.10	0.9300	43.46	0.013	0.63	18.37	858.41	3.75	175.23
3699	2.50	0.7476	29.90	1.9318	77.27	0.5384	21.54	0.013	0.52	22.05	882.00	4.64	185.60
3700	2.23	0.8481b	38.03	1.9796	88.77	0.9245	41.46	0.014	0.63	31.18	1398.21	5.77	258.74
3701	2.43	0.8475	34.88	1.7288	71.14	0.7984	32.86	0.014	0.58	30.06	1237.04	5.65	232.51
3702	2.44	0.8962	36.73	1.9037	78.02	0.6719	27.54	0.021	0.86	25.71	1053.69	5.73	234.84
3703	2.32	0.9021	38.88	2.2057	95.07	0.7457	32.14	0.012	0.52	24.75	1066.81	4.67	201.29
3704	2.39	0.8303	34.74	1.9677	82.33	0.6551	27.41	0.017	0.71	25.30	1058.58	5.21	217.99
3705	2.45	0.8054	32.87	1.8835	76.88	0.7795	31.82	0.014	0.57	20.22	825.31	5.05	206.12
3706	2.22	0.8247	37.15	1.6118	72.60	0.8757	39.44	0.015	0.68	19.58	881.98	4.71	212.16
3707	2.21	0.7647	34.60	1.8396	83.24	0.7432	33.63	0.012	0.54	18.78	849.77	4.39	198.64
3708	2.48	0.7997	32.24	1.8071	72.87	0.7867	31.72	0.013	0.52	27.67	1115.72	5.31	214.11
3709	2.25	0.7380	32.80	1.6192	71.96	0.4965	22.07	0.010	0.44	20.68	919.11	4.69	208.44
3710	2.41	0.8909	36.97	1.9259	79.91	0.4158	17.25	0.014	0.58	23.46	973.44	4.98	206.64
3711	2.40	0.8425	35.10	1.8486	77.02	0.7378	30.74	0.008	0.33	21.98	915.83	4.60	191.67
3712	2.54	0.9369	36.88	2.1584	84.98	0.7207	28.37	0.012	0.47	26.42	1040.16	6.36	250.39
3713	2.30	0.8322	36.18	2.0719	90.21	0.7973	34.66	0.011	0.48	25.88	1125.22	5.25	228.26
3714	2.43	0.7973	32.81	1.9109	78.64	0.6391	26.30	0.016	0.66	27.81	1144.44	5.88	241.98
3715	2.42	0.8494	35.10	1.8826	77.79	0.4665	19.28	0.017	0.70	26.60	1099.17	4.85	200.41
3716	2.32	0.7774	33.51	1.9490	84.01	0.8587	37.01	0.014	0.60	24.69	1064.22	4.80	206.90
3717	2.20	0.8269	37.59	1.7641	80.19	0.7804	35.47	0.024	1.09	21.90	995.45	5.67	257.73
3718	2.25	0.8597	38.21	1.9361	86.05	0.6903	30.68	0.018	0.80	28.28	1256.89	5.98	265.78
3719	2.34	0.7527	32.17	1.7689	75.59	0.6938	29.65	0.013	0.56	23.90	1021.37	5.01	214.10
3720	2.41	0.7967	33.06	1.9086	79.20	0.6886	28.57	0.014	0.58	28.24	1171.78	5.81	241.08

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 3698 was moribund sacrificed on day 40 of study; values excluded from group averages and statistical analyses.

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B23 (PAGE 12): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 4					30.0 MG/KG/DAY				
3691	2.39	0.047	1.97	1.22	51.05	0.053	2.22	1.74	72.80
3692	2.24	0.068	3.04	1.13	50.45	0.028	1.25	2.17	96.87
3693	2.36	0.052	2.20	1.12	47.46	0.057	2.42	1.83	77.54
3694	2.37	0.053	2.24	0.97	40.93	0.047	1.98	2.01	84.81
3695	2.48	0.064	2.58	1.19	47.98	0.048	1.94	1.90	76.61
3696	2.25	0.046	2.04	1.28	56.89	0.049	2.18	2.45	108.89
3697	2.26	0.076	3.36	0.73	32.30	0.051	2.26	1.68	74.34
3698a	2.14b	0.067	3.14	0.77	35.98	0.045	2.10	1.48	69.16
3699	2.50	0.071	2.84	1.08	43.20	0.068	2.72	1.76	70.40
3700	2.23	0.042	1.88	1.16	52.02	0.050	2.24	2.15	96.41
3701	2.43	0.038	1.56	1.14	46.91	0.057	2.34	2.31	95.06
3702	2.44	0.093	3.81	1.05	43.03	0.054	2.21	1.91	78.28
3703	2.32	0.064	2.76	1.11	47.84	0.061	2.63	2.11	90.95
3704	2.39	0.055	2.30	1.04	43.51	0.048	2.01	1.95	81.59
3705	2.45	0.058	2.37	0.93	37.96	0.042	1.71	1.79	73.06
3706	2.22	0.055	2.48	0.93	41.89	0.054	2.43	1.43	64.41
3707	2.21	0.053	2.40	1.07	48.42	0.046	2.08	1.85	83.71
3708	2.48	0.074	2.98	1.19	47.98	0.045	1.81	1.92	77.42
3709	2.25	0.048	2.13	0.82	36.44	0.046	2.04	1.57	69.78
3710	2.41	0.046	1.91	0.85	35.27	0.052	2.16	1.52	63.07
3711	2.40	0.054	2.25	1.11	46.25	0.048	2.00	1.66	69.17
3712	2.54	0.075	2.95	2.43c	95.67c	0.048	1.89	1.77	69.68
3713	2.30	0.058	2.52	0.90	39.13	0.058	2.52	1.66	72.17
3714	2.43	0.076	3.13	1.20	49.38	0.057	2.34	2.06	84.77
3715	2.42	0.076	3.14	1.04	42.98	0.058	2.40	2.00	82.64
3716	2.32	0.068	2.93	0.91	39.22	0.057	2.46	1.92	82.76
3717	2.20	0.055	2.50	1.52	69.09	0.049	2.23	1.72	78.18
3718	2.25	0.069	3.07	0.99	44.00	0.049	2.18	1.84	81.78
3719	2.34	0.051	2.18	1.13	48.29	0.056	2.39	2.05	87.61
3720	2.41	0.038	1.58	0.97	40.25	0.046	1.91	1.81	75.10

ALL WEIGHTS WERE RECORDED IN GRAMS. ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 3698 was moribund sacrificed on day 40 of study; values excluded from group averages and statistical analyses.

b. Damaged during processing (weight not affected).

c. Rat 3712 had a large spleen; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B24 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 1			0 (CARRIER) MG/KG/DAY							
RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
3601	215	78	61	276	58	3.4	595	29	1.7	95.9
3602	313	80	77	390	141	8.2	994.8	35	2	107.6
3603	166	69	74	240	98	5.7	824.1	24	1.4	89.1
3604	288	60	191	479	120	6.9	855	17	1	55.2
3605	299	67	146	445	162	9.4	1048.4	44	2.5	157.4
3606	426	75	143	569	96	5.6	802.6	33	1.9	116.6
3607	275	80	67	342	161	9.3	1265.6	53	3.1	175
3608	221	68	105	326	179	10.4	1317.5	28	1.6	85.9
3609	425	76	134	559	58	3.4	434.7	39	2.3	128.9
3610	284	74	102	386	172	10	1120.6	26	1.5	85.4
3611	303	83	63	366	65	3.8	564.6	50	2.9	164.8
3612	180	63	105	285	90	5.2	624.3	36	2.1	122.3
3613	483	72	186	669	48	2.8	385.7	57	3.3	180.2
3614	127	62	77	204	106	6.1	731.8	25	1.4	95.9
3615	139	65	75	214	81	4.7	819.3	28	1.6	110.5
3616	404	81	94	498	139	8	1083.8	31	1.8	106.1
3617	163	72	63	226	101	5.8	747.2	34	2	108.1
3618	443	86	72	515	237	13.7	1656	28	1.6	95.7
3619	159	67	80	239	50	2.9	424.1	50	2.9	171.2
3620	308	82	69	377	114	6.6	792.7	37	2.1	117.9
3621	214	78	59	273	160	9.3	1030.8	26	1.5	89.2
3622	182	74	63	245	109	6.3	796.2	37	2.1	125.2
3623	257	88	36	293	75	4.3	567.9	34	2	109.7
3624	506	79	131	637	88	5.1	677	42	2.4	145.9
3625	448	80	113	561	97	5.6	811	37	2.1	133.9
3626	FOUND DEAD ON DAY 80 OF STUDY									
3627	297	74	103	400	81	4.7	575.7	44	2.5	139.7
3628	347	76	111	458	93	5.4	679.3	6	0.3	17.1
3629	372	68	174	546	122	7.1	888.9	24	1.4	73.8
3630	474	83	98	572	97	5.6	758.4	27	1.6	145.2

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table B22 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B24 (PAGE 2): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
3631	228	74	81	309	161	9.3	1512.1	26	1.5	91.7
3632	181	74	65	246	157	9.1	1126.9	28	1.6	87
3633	219	87	33	252	67	3.9	535.4	32	1.9	98.7
3634	299	86	50	349	124	7.2	956.5	41	2.4	158.8
3635	206	84	40	246	202	11.7	1256.6	28	1.6	97.3
3636	190	68	91	281	133	7.7	907.4	28	1.6	83.1
3637	245	74	85	330	90	5.2	741.7	34	2	111.1
3638	251	72	98	349	220	12.7	1615.2	46	2.7	145.4
3639d	57	20	233	290	87	5	627.6	3	0.2	17.1
3640	126	59	87	213	105	6.1	776.8	42	2.4	146.6
3641	622	84	115	737	186	10.8	1269	31	1.8	105
3642	456	82	101	557	99	5.7	730.6	30	1.7	97.6
3643	477	78	138	615	88	5.1	662.9	25	1.4	82.3
3644	425	81	100	525	114	6.6	944.9	51	3	157.3
3645	149	66	77	226	93	5.4	733	25	1.4	86
3646	238	83	50	288	106	6.1	813.3	13	0.8	45.9
3647	595	80	147	742	88	5.1	638	48	2.8	146.6
3648	282	81	68	350	98	5.7	760	48	2.8	153.3
3649	336	81	78	414	90	5.2	611.1	53	3.1	161
3650	411	68	197	608	84	4.9	641.1	41	2.4	127.8
3651	216	77	63	279	91	5.3	709.5	33	1.9	132.8
3652	259	85	44	303	116	6.7	739.1	23	1.3	77.7
3653	164	74	59	223	138	8	1050.5	25	1.4	90.6
3654	214	83	44	258	116	6.7	785.8	23	1.3	72.6
3655	253	73	95	348	90	5.2	676.2	31	1.8	103.4
3656	332	66	172	504	31	1.8	301.9	28	1.6	100.7
3657	326	78	92	418	123	7.1	799.6	44	2.5	141.9
3658	412	82	93	505	70	4	517.9	7	0.4	31.5
3659	219	67	108	327	160	9.3	1264.6	25	1.4	86.9
3660	377	77	113	490	94	5.4	731	37	2.1	130.8

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table B22 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

d. Rat 3639 had a tan mass on the left cauda epididymis; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B24 (PAGE 3): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 3			3.0 MG/KG/DAY							
RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
3661	299	75	101	400	135	7.8	996.2	29	1.7	86.3
3662	464	84	89	553	103	6	733.9	26	1.5	85.3
3663	305	84	60	365	109	6.3	958.4	31	1.8	100.9
3664	298	75	101	399	128	7.4	828.3	51	3	181.6
3665	191	74	66	257	89	5.1	739.8	35	2	117.9
3666	155	76	50	205	141	8.2	1196.1	43	2.5	142.1
3667	199	65	109	308	143	8.3	940.1	31	1.8	100.6
3668	163	54	138	301	249	14.4	1682.9	43	2.5	134.2
3669	284	78	80	364	60	3.5	440.5	28	1.6	93.5
3670	507	71	209	716	111	6.4	847.2	20	1.2	71
3671d	30	33	61	91	4	0.2	68.1	d		
3672	300	77	90	390	102	5.9	760.5	33	1.9	111.1
3673	184	60	125	309	70	4	532.9	32	1.9	112.5
3674	309	69	136	445	116	6.7	814.5	22	1.3	78.9
3675	133	64	74	207	116	6.7	934.7	31	1.8	108.4
3676	190	62	118	308	61	3.5	539.6	24	1.4	80.6
3677	260	77	76	336	57	3.3	549.6	63	3.6	198.5
3678	275	80	67	342	100	5.8	786.1	26	1.5	91.3
3679	287	82	65	352	83	4.8	680.2	28	1.6	106.2
3680	242	66	127	369	89	5.1	653.4	25	1.4	79.7
3681	605	85	107	712	70	4	553.2	33	1.9	119.9
3682	233	59	162	395	102	5.9	828.8	44	2.5	157.3
3683	181	85	33	214	70	4	487.9	24	1.4	76.5
3684	270	75	92	362	89	5.1	610.1	46	2.7	138.8
3685	194	68	91	285	65	3.8	485.9	41	2.4	124.3
3686	210	76	66	276	124	7.2	872.7	65	3.8	196
3687	345	80	86	431	134	7.8	1073.7	20	1.2	69.3
3688	343	69	151	494	66	3.8	492.1	60	3.5	180.8
3689	366	82	78	444	96	5.6	719.4	58	3.4	189.8
3690	450	81	109	559	86	5	611.2	6	0.3	21.3

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table B22 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

d. Rat 3671 had a small left epididymis; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B24 (PAGE 4): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - P1 GENERATION MALE RATS

DOSAGE GROUP 4			30.0 MG/KG/DAY							
RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
3691	152	75	50	202	57	3.3	520.1	45	2.6	162.7
3692	130	57	97	227	107	6.2	926.7	28	1.6	91.6
3693	303	78	84	387	71	4.1	713.1	5	0.3	16.6
3694	178	64	99	277	135	7.8	988.6	15	0.9	50
3695	185	67	93	278	158	9.1	1075.4	29	1.7	94.3
3696	188	81	43	231	125	7.2	1027.2	33	1.9	97.3
3697	335	84	65	400	111	6.4	840.6	38	2.2	120.9
3698	MORIBUND SACRIFICED ON DAY 40 OF STUDY									
3699	201	60	132	333	103	6	798.8	19	1.1	60.5
3700	311	62	191	502	110	6.4	750.5	37	2.1	124
3701	307	80	79	386	117	6.8	950.7	45	2.6	166.2
3702	444	74	154	598	234	13.5	1563.3	42	2.4	135.4
3703	489	86	78	567	168	9.7	1162.6	32	1.9	102.9
3704	403	77	119	522	150	8.7	1141.9	32	1.9	116.5
3705	187	67	93	280	136	7.9	1147	36	2.1	120.8
3706	659	88	86	745	62	3.6	494.1	29	1.7	113.3
3707	728	88	97	825	120	6.9	1091.6	28	1.6	97.1
3708	328	69	149	477	188	10.9	1523.3	23	1.3	104.3
3709	209	56	163	372	61	3.5	548	23	1.3	97.1
3710	351	78	101	452	113	6.5	869.3	35	2	120
3711	330	73	123	453	70	4	573.6	39	2.3	136.8
3712	161	77	48	209	111	6.4	851.7	41	2.4	130.8
3713	229	78	65	294	125	7.2	987.9	34	2	105.8
3714	280	75	94	374	126	7.3	880.4	35	2	111.9
3715	457	84	86	543	110	6.4	702.4	44	2.5	156.9
3716	441	77	133	574	85	4.9	642	36	1.9	106.7
3717	259	74	90	349	80	4.6	628.9	32	1.9	122
3718	438	84	81	519	108	6.2	733.4	52	3	157.5
3719	290	77	85	375	95	5.5	796.5	30	1.7	112.3
3720	276	75	93	369	131	7.6	940.3	28	1.6	135

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table B22 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B25 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	NORMAL	NO HOOK	EXCES-SIVE HOOK	AMOR-PHOUS	PIN HEAD	DETACHED HEAD	SHORT SPERM HEAD	NO HEAD	COILED FLAGEL-LUM	BENT FLAGEL-LUM	BENT FLAGEL-LUM TIP	BROKEN FLAGEL-LUM	PERCENT ABNORMAL
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
3601	194	1	0	0	0	3	0	2	0	0	0	0	3.0
3602	199	0	0	0	0	1	0	0	0	0	0	0	0.5
3603	195	0	0	0	0	4	0	1	0	0	0	0	2.5
3604	195	0	0	0	0	3	0	2	0	0	0	0	2.5
3605	195	0	0	1	0	3	0	1	0	0	0	0	2.5
3606	197	0	0	0	0	3	0	0	0	0	0	0	1.5
3607	196	0	0	0	0	3	0	1	0	0	0	0	2.0
3608	188	1	0	0	0	4	0	3	0	1	0	3	6.0
3609	199	0	0	0	0	0	0	1	0	0	0	0	0.5
3610	198	0	0	0	0	0	0	2	0	0	0	0	1.0
3611	198	0	0	0	0	1	0	1	0	0	0	0	1.0
3612	194	1	0	0	0	3	0	2	0	0	0	0	3.0
3613	193	0	0	0	0	2	0	0	0	0	0	5	3.5
3614	196	0	0	0	0	2	0	1	0	0	0	1	2.0
3615	194	0	0	0	0	0	0	5	0	0	0	1	3.0
3616	195	0	0	0	0	2	0	1	0	0	0	2	2.5
3617	198	0	0	0	0	1	0	1	0	0	0	0	1.0
3618	194	0	0	0	0	5	0	0	0	1	0	0	3.0
3619	196	1	0	0	0	2	0	1	0	0	0	0	2.0
3620	196	0	0	0	0	1	0	1	0	0	0	2	2.0
3621	193	0	0	0	0	4	0	2	0	0	0	1	3.5
3622	191	1	0	1	0	7	0	0	0	0	0	0	4.5
3623	197	0	0	1	0	1	0	1	0	0	0	0	1.5
3624	195	0	0	0	0	4	0	1	0	0	0	0	2.5
3625	190	0	0	0	0	3	0	3	0	0	0	4	5.0
3626	FOUND DEAD ON DAY 80 OF STUDY												
3627	187	0	0	0	0	8	0	3	0	0	0	2	6.5
3628	197	0	0	0	0	1	0	2	0	0	0	0	1.5
3629	193	0	0	0	0	6	0	1	0	0	0	0	3.5
3630	191	0	0	0	0	4	0	4	0	0	0	1	4.5

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B25 (PAGE 2): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	NORMAL	NO HOOK	EXCESSIVE HOOK	AMORPHOUS	PIN HEAD	DETACHED HEAD	SHORT SPERM HEAD	NO HEAD	COILED FLAGELLUM	BENT FLAGELLUM	BENT FLAGELLUM TIP	BROKEN FLAGELLUM	PERCENT ABNORMAL
DOSAGE GROUP 2						0.3 MG/KG/DAY							
3631	196	0	0	0	0	2	0	2	0	0	0	0	2.0
3632	198	0	0	0	0	1	0	0	0	0	0	1	1.0
3633	193	0	0	0	0	1	0	6	0	0	0	0	3.5
3634	196	0	0	0	0	2	0	2	0	0	0	0	2.0
3635	196	0	0	0	0	4	0	0	0	0	0	0	2.0
3636	194	0	0	0	0	4	0	2	0	0	0	0	3.0
3637	196	0	0	0	0	3	0	1	0	0	0	0	2.0
3638	197	0	0	0	0	3	0	0	0	0	0	0	1.5
3639a	17	0	0	0	0	119	0	64	0	0	0	0	91.5
3640	195	0	0	0	0	3	0	1	0	0	0	1	2.5
3641	197	0	0	0	0	3	0	0	0	0	0	0	1.5
3642	191	0	0	0	0	6	0	1	0	0	0	2	4.5
3643	197	0	0	0	0	1	0	2	0	0	0	0	1.5
3644	198	0	0	0	0	2	0	0	0	0	0	0	1.0
3645	183	0	0	0	0	11	0	4	0	0	0	2	8.5
3646	198	0	0	0	0	2	0	0	0	0	0	0	1.0
3647	195	0	0	0	0	3	0	1	0	0	0	1	2.5
3648	195	0	0	0	0	4	0	1	0	0	0	0	2.5
3649	197	0	0	0	0	2	0	1	0	0	0	0	1.5
3650	194	0	0	1	0	1	0	1	1	0	0	2	3.0
3651	197	0	0	0	0	2	0	0	0	0	0	1	1.5
3652	192	0	0	0	0	7	0	1	0	0	0	0	4.0
3653	182	1	0	0	0	8	0	6	0	1	0	2	9.0
3654	187	1	0	0	0	4	0	5	0	0	0	3	6.5
3655	186	1	0	0	0	10	0	2	0	0	0	1	7.0
3656	193	0	0	0	0	2	0	1	0	0	0	4	3.5
3657	196	0	0	0	0	3	0	0	0	0	0	1	2.0
3658	199	0	0	0	0	1	0	0	0	0	0	0	0.5
3659	191	0	0	0	0	5	0	4	0	0	0	0	4.5
3660	187	0	0	0	0	8	0	3	1	0	0	1	6.5

a. Rat 3639 had a tan mass on the left cauda epididymis and a small right testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B25 (PAGE 3): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	NORMAL	NO HOOK	EXCES-SIVE HOOK	AMOR-PHOUS	PIN HEAD	DETACHED HEAD	SHORT SPERM HEAD	NO HEAD	COILED FLAGEL-LUM	BENT FLAGEL-LUM	BENT FLAGEL-LUM TIP	BROKEN FLAGEL-LUM	PERCENT ABNORMAL
DOSAGE GROUP 3						3.0 MG/KG/DAY							
3661	197	0	0	0	0	2	0	0	0	0	0	1	1.5
3662	192	1	0	0	0	6	0	1	0	0	0	0	4.0
3663	199	0	0	0	0	1	0	0	0	0	0	0	0.5
3664	195	0	0	0	0	2	0	3	0	0	0	0	2.5
3665	199	0	0	0	0	1	0	0	0	0	0	0	0.5
3666	196	0	0	0	0	3	0	0	0	0	0	1	2.0
3667	196	0	0	0	0	3	0	0	0	0	0	1	2.0
3668	197	0	0	0	0	1	0	0	0	0	0	2	1.5
3669	192	0	0	0	0	5	0	1	0	0	0	2	4.0
3670	193	1	0	0	0	4	0	1	0	0	0	1	3.5
3671a	151	0	0	0	0	20	0	13	0	0	0	16	24.5
3672	194	0	0	0	0	1	0	5	0	0	0	0	3.0
3673	197	0	0	0	0	1	0	1	0	0	0	1	1.5
3674	190	0	0	0	0	4	0	5	0	0	0	1	5.0
3675	197	0	0	0	0	3	0	0	0	0	0	0	1.5
3676	193	1	0	0	0	5	0	1	0	0	0	0	3.5
3677	196	0	0	0	0	2	0	2	0	0	0	0	2.0
3678	196	0	0	0	0	2	0	2	0	0	0	0	2.0
3679	197	0	0	0	0	2	0	1	0	0	0	0	1.5
3680	196	0	0	0	0	3	0	1	0	0	0	0	2.0
3681	198	0	0	0	0	0	0	0	0	0	0	2	1.0
3682	192	1	0	0	0	4	0	2	0	0	0	1	4.0
3683	196	0	0	0	0	3	0	1	0	0	0	0	2.0
3684	190	0	0	0	0	9	0	0	0	0	0	1	5.0
3685	192	1	0	0	0	4	0	2	0	0	0	1	4.0
3686	195	0	0	0	0	4	0	0	0	0	0	1	2.5
3687	SPERM NOT EVALUATED; NO SLIDE PREPARED												
3688	196	0	0	0	0	3	0	1	0	0	0	0	2.0
3689	195	0	0	0	0	3	0	0	1	0	0	1	2.5
3690	190	0	0	0	0	4	0	5	0	0	0	1	5.0

a. Rat 3671 had a small left epididymis and left testis; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table B21).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE B25 (PAGE 4): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - P1 GENERATION MALE RATS

RAT NUMBER	NORMAL	NO HOOK	EXCES-SIVE HOOK	AMOR-PHOUS	PIN HEAD	DETACHED HEAD	SHORT SPERM HEAD	NO HEAD	COILED FLAGEL-LUM	BENT FLAGEL-LUM	BENT FLAGEL-LUM TIP	BROKEN FLAGEL-LUM	PERCENT ABNORMAL
DOSAGE GROUP 4						30.0 MG/KG/DAY							
3691	197	0	0	0	0	2	0	1	0	0	0	0	1.5
3692	195	0	0	0	0	5	0	0	0	0	0	0	2.5
3693	196	0	1	0	0	2	0	0	0	0	0	1	2.0
3694	197	0	0	0	0	3	0	0	0	0	0	0	1.5
3695	196	0	0	0	0	1	0	1	0	0	0	2	2.0
3696	195	0	0	0	0	2	0	3	0	0	0	0	2.5
3697	194	0	0	0	0	4	0	2	0	0	0	0	3.0
3698	MORIBUND SACRIFICED ON DAY 40 OF STUDY												
3699	194	0	0	0	0	4	0	2	0	0	0	0	3.0
3700	185	2	0	0	0	6	0	6	0	0	0	1	7.5
3701	195	0	0	0	0	3	0	1	1	0	0	0	2.5
3702	198	0	0	0	0	0	0	0	0	0	0	2	1.0
3703	197	0	0	0	0	1	0	2	0	0	0	0	1.5
3704	197	0	0	0	0	2	0	1	0	0	0	0	1.5
3705	200	0	0	0	0	0	0	0	0	0	0	0	0.0
3706	189	0	0	0	0	9	0	2	0	0	0	0	5.5
3707	191	0	0	0	0	4	0	5	0	0	0	0	4.5
3708	195	0	0	0	0	3	0	2	0	0	0	0	2.5
3709	194	0	0	0	0	6	0	0	0	0	0	0	3.0
3710	189	0	0	0	0	6	0	4	0	0	0	1	5.5
3711	189	0	0	0	0	8	0	3	0	0	0	0	5.5
3712	194	1	0	0	0	2	0	3	0	0	0	0	3.0
3713	193	0	0	0	0	4	0	3	0	0	0	0	3.5
3714	195	0	0	0	0	3	0	2	0	0	0	0	2.5
3715	193	0	0	0	0	3	0	2	0	0	0	2	3.5
3716	197	0	0	0	0	0	1	2	0	0	0	0	1.5
3717	192	0	0	0	0	5	0	2	0	0	0	1	4.0
3718	200	0	0	0	0	0	0	0	0	0	0	0	0.0
3719	198	0	0	0	0	2	0	0	0	0	0	0	1.0
3720	192	0	0	0	0	3	0	4	0	0	0	1	4.0

APPENDIX C

REPORT TABLES - P1 GENERATION FEMALE RATS

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C1 (PAGE 1): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PRECOHABITATION:					
RATS TESTED	N	30	30	30	30
PRECOHABITATION ACTUAL DOSAGE (MG/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	0.0 ± 0.0 [27]a	0.4 ± 0.1 [29]a	4.8 ± 0.8	43.7 ± 7.7 [28]a
DAYS 8 - 15	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0 [29]a	2.6 ± 0.4 [29]a	28.1 ± 7.9 [29]a
DAYS 15 - 22	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	3.4 ± 0.7	32.3 ± 9.5 [29]a
DAYS 22 - 29	MEAN±S.D.	0.0 ± 0.0 [29]a	0.3 ± 0.1 [29]a	2.7 ± 0.4 [28]a	26.5 ± 5.8 [25]a
DAYS 29 - 36	MEAN±S.D.	0.0 ± 0.0 [27]a	0.3 ± 0.1 [29]a	2.9 ± 0.6 [28]a	31.5 ± 8.4 [24]a
DAYS 36 - 43	MEAN±S.D.	0.0 ± 0.0 [28]a	0.3 ± 0.1 [28]a	3.0 ± 0.8 [28]a	31.2 ± 11.1 [25]a
DAYS 43 - 50	MEAN±S.D.	0.0 ± 0.0 [27]a	0.3 ± 0.1 [27]a	3.2 ± 0.8 [27]a	32.2 ± 10.2 [23]a
DAYS 50 - 57	MEAN±S.D.	0.0 ± 0.0 [26]a	0.2 ± 0.1 [25]a	2.7 ± 0.7 [25]a	30.0 ± 10.1 [25]a
DAYS 57 - 64	MEAN±S.D.	0.0 ± 0.0 [24]a	0.3 ± 0.1 [25]a	3.2 ± 0.8 [24]a	29.3 ± 8.0 [23]a
DAYS 64 - 71	MEAN±S.D.	0.0 ± 0.0 [25]a	0.3 ± 0.1 [26]a	3.0 ± 0.7 [21]a	29.9 ± 7.9 [23]a
DAYS 1 - 71	MEAN±S.D.	0.0 ± 0.0 [25]a	0.3 ± 0.1 [26]a	3.2 ± 0.6 [21]a	30.0 ± 6.4 [23]a

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C1 (PAGE 2): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
GESTATION:					
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
INCLUDED IN ANALYSES	N	28	22	26	23b
MATERNAL ACTUAL DOSAGE (MG/KG/DAY)					
DAYS 0 - 7	MEAN±S.D.	0.0 ± 0.0 [22]c	0.3 ± 0.1 [18]c	3.0 ± 0.6 [17]c	31.3 ± 5.8 [16]c
DAYS 7 - 14	MEAN±S.D.	0.0 ± 0.0 [20]c	0.3 ± 0.1 [14]c	2.8 ± 0.6 [13]c,d	29.5 ± 5.8 [13]c
DAYS 14 - 21	MEAN±S.D.	0.0 ± 0.0 [27]c	0.4 ± 0.1	4.3 ± 1.0 [24]c,d	40.4 ± 9.4 [22]c
DAYS 0 - 21	MEAN±S.D.	0.0 ± 0.0 [27]c	0.4 ± 0.1	4.0 ± 0.8 [24]c,d	40.2 ± 10.3 [22]c

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. The actual dosage was calculated by averaging the concentrations used during each interval then rounding to one decimal place.
b. Excludes values for dam 3915, which did not have a confirmed mating date.
c. Excludes values that were associated with spillage or presumed spillage.
d. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C1 (PAGE 3): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
LACTATION:					
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25b	24
MATERNAL ACTUAL DOSAGE (MG/KG/DAY)					
DAYS 1 - 4	MEAN±S.D.	0.0 ± 0.0 [27]c	0.2 ± 0.1 [21]c	2.2 ± 0.6 [21]c	20.6 ± 5.7
DAYS 4 - 7	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.2 [21]c	3.2 ± 0.9 [22]c	34.4 ± 14.3 [22]c
DAYS 7 - 14	MEAN±S.D.	0.0 ± 0.0 [24]c	0.3 ± 0.1 [19]c	3.4 ± 0.6 [23]c	35.0 ± 8.1
DAYS 1 - 14	MEAN±S.D.	0.0 ± 0.0 [24]c	0.3 ± 0.1 [19]c	3.3 ± 0.6 [23]c	31.6 ± 6.8

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. The actual dosage was calculated by averaging the concentrations used during each interval then rounding to one decimal place.
b. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
c. Excludes values that were associated with spillage or presumed spillage.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C2 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
PRECOHABITATION (DAY 1 OF STUDY TO THE DAY OF COHABITATION):				
MAXIMUM POSSIBLE INCIDENCE	2130/ 30	2130/ 30	2130/ 30	2130/ 30
MORTALITY	0	0	0	0
LESION a	21/ 2	29/ 4	0/ 0	38/ 3
LOCALIZED ALOPECIA: TOTAL	112/ 4	91/ 5	53/ 3	42/ 2
HEAD	7/ 1	16/ 2	0/ 0	22/ 1
NECK	15/ 2	0/ 0	0/ 0	20/ 1
LIMBS	91/ 3	52/ 1	46/ 2	0/ 0
UNDERSIDE	0/ 0	11/ 1	7/ 1	0/ 0
BACK	0/ 0	12/ 1	0/ 0	0/ 0
INCISORS: TOTAL	14/ 1	11/ 1	29/ 1	3/ 1
MISALIGNED	13/ 1	10/ 1	29/ 1	3/ 1
MISSING/BROKEN	13/ 1	11/ 1	0/ 0	3/ 1
DEHYDRATION	0/ 0	0/ 0	1/ 1	1/ 1
CHROMORHINORRHEA	1/ 1	0/ 0	0/ 0	1/ 1
CHROMODACRYORRHEA	0/ 0	7/ 1	0/ 0	0/ 0
HEAD TILT	39/ 1	0/ 0	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Located on the left inguinal area, neck, head, back, left forelimb, and/or below the right ear.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C2 (PAGE 2): CLINICAL OBSERVATIONS - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
PRESUMED GESTATION: a				
MAXIMUM POSSIBLE INCIDENCE	689/ 30	600/ 26	655/ 29	681/ 29
MORIBUND SACRIFICED	0	0	1b	0
INCISORS: TOTAL	0/ 0	18/ 1	6/ 2	32/ 3
MISALIGNED	0/ 0	18/ 1	6/ 2b	32/ 3
MISSING/BROKEN	0/ 0	0/ 0	5/ 1	5/ 2
SWOLLEN AND PURPLE EAR(S)	15/ 1	44/ 3	36/ 2	24/ 3
NOSE OR LEFT INGUINAL AREA: LESION	4/ 1	0/ 0	0/ 0	6/ 1
LOCALIZED ALOPECIA: TOTAL	63/ 5	22/ 1	29/ 3	0/ 0
LIMBS	50/ 3	22/ 1	21/ 2	0/ 0
BACK	0/ 0	0/ 0	8/ 1	0/ 0
UNDERSIDE	13/ 2	0/ 0	0/ 0	0/ 0
CHROMORHINORRHEA	0/ 0	14/ 2	1/ 1b	0/ 0
CHROMODACRYORRHEA	0/ 0	18/ 1	1/ 1b	0/ 0
SWOLLEN SNOUT	0/ 0	0/ 0	1/ 1b	0/ 0
BROKEN HARD PALATE	0/ 0	0/ 0	1/ 1b	0/ 0
LABORED BREATHING	0/ 0	0/ 0	1/ 1b	0/ 0
HEAD TILT	22/ 1	0/ 0	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Restricted to rats with a confirmed mating date.
b. Dam 3881 was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C2 (PAGE 3): CLINICAL OBSERVATIONS - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
LACTATION:				
MAXIMUM POSSIBLE INCIDENCE	588/ 28	462/ 22	525/ 25	504/ 24
MORTALITY	0	0	0	0
INCISORS: TOTAL	0/ 0	21/ 1	7/ 1	21/ 1
MISALIGNED	0/ 0	21/ 1	7/ 1	21/ 1
MISSING/BROKEN	0/ 0	0/ 0	6/ 1	15/ 1
NOSE: LESION	0/ 0	0/ 0	0/ 0	13/ 1
SWOLLEN AND PURPLE EAR(S)	48/ 4	56/ 3	54/ 3	7/ 1
CHROMORHINORRHEA	0/ 0	2/ 1	0/ 0	3/ 1
LOCALIZED ALOPECIA: TOTAL	90/ 6	37/ 2*	20/ 1**	0/ 0**
LIMBS	67/ 4	37/ 2	20/ 1	0/ 0
UNDERSIDE	33/ 3	0/ 0**	0/ 0**	0/ 0**
CHROMODACRYORRHEA	0/ 0	21/ 1	0/ 0	0/ 0
RIGHT INGUINAL AREA AND RIGHT FLANK: MASS	0/ 0	17/ 1	0/ 0	0/ 0
RED PERIVAGINAL SUBSTANCE	0/ 0	2/ 1	0/ 0	0/ 0
PALE SKIN	0/ 0	2/ 1	0/ 0	0/ 0
HEAD TILT	21/ 1	0/ 0	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C3 (PAGE 1): BODY WEIGHTS - PRECOHABITATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT (G)					
DAY 1	MEAN±S.D	152.4 ± 7.2	152.0 ± 8.0	150.5 ± 6.7	148.9 ± 12.7
DAY 8	MEAN±S.D	186.6 ± 11.0	185.9 ± 12.8	182.1 ± 9.0	182.7 ± 11.9
DAY 15	MEAN±S.D	210.0 ± 12.4	209.6 ± 14.3	203.2 ± 13.4	205.1 ± 14.4
DAY 22	MEAN±S.D	226.8 ± 15.4	225.4 ± 16.1	222.9 ± 18.2	222.4 ± 18.7
DAY 29	MEAN±S.D	241.2 ± 15.9	241.1 ± 20.5	237.7 ± 18.2	236.5 ± 18.6
DAY 36	MEAN±S.D	253.0 ± 19.7	254.3 ± 23.0	247.9 ± 20.7	248.6 ± 20.3
DAY 43	MEAN±S.D	260.2 ± 22.8	262.3 ± 24.8	256.6 ± 23.6	256.4 ± 23.1
DAY 50	MEAN±S.D	270.7 ± 24.6	273.6 ± 25.5	267.0 ± 23.4	266.8 ± 23.7
DAY 57	MEAN±S.D	277.7 ± 24.5	279.2 ± 26.7	275.0 ± 23.9	275.1 ± 24.1
DAY 64	MEAN±S.D	284.5 ± 26.4	287.4 ± 28.8	281.1 ± 24.6	281.1 ± 27.4
DAY 71a	MEAN±S.D	289.0 ± 27.9	293.6 ± 30.5	286.4 ± 25.9	288.1 ± 29.5

DAY = DAY OF STUDY
a. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C4 (PAGE 1): BODY WEIGHT CHANGES - PRECOHABITATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT CHANGE (G)					
DAYS 1 - 8	MEAN±S.D.	+34.2 ± 7.2	+33.9 ± 6.9	+31.6 ± 5.9	+33.8 ± 8.8
DAYS 8 - 15	MEAN±S.D.	+23.4 ± 6.1	+23.7 ± 6.4	+21.0 ± 7.6	+22.3 ± 7.0
DAYS 15 - 22	MEAN±S.D.	+16.8 ± 6.3	+15.8 ± 7.6	+19.7 ± 9.6	+17.3 ± 7.6
DAYS 22 - 29	MEAN±S.D.	+14.4 ± 7.3	+15.7 ± 8.6	+14.8 ± 5.5	+14.1 ± 9.5
DAYS 29 - 36	MEAN±S.D.	+11.9 ± 7.9	+13.3 ± 7.9	+10.2 ± 6.5	+12.1 ± 6.7
DAYS 36 - 43	MEAN±S.D.	+7.2 ± 7.6	+7.9 ± 7.3	+8.7 ± 7.3	+7.9 ± 6.2
DAYS 43 - 50	MEAN±S.D.	+10.5 ± 7.5	+11.3 ± 7.2	+10.4 ± 7.3	+10.4 ± 8.5
DAYS 50 - 57	MEAN±S.D.	+6.9 ± 5.9	+5.6 ± 8.1	+7.9 ± 6.7	+8.3 ± 9.1
DAYS 57 - 64	MEAN±S.D.	+6.9 ± 5.0	+8.2 ± 8.5	+6.2 ± 5.3	+6.0 ± 7.9
DAYS 64 - 71a	MEAN±S.D.	+4.5 ± 8.1	+6.2 ± 8.0	+5.3 ± 8.5	+7.0 ± 7.0
DAYS 1 - 71a	MEAN±S.D.	+136.6 ± 25.6	+141.6 ± 25.7	+135.9 ± 24.8	+139.2 ± 26.2

DAYS = DAYS OF STUDY
a. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C5 (PAGE 1): MATERNAL BODY WEIGHTS - GESTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)		1 0 (CARRIER)	2 0.3	3 3.0	4 30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
INCLUDED IN ANALYSES	N	28	22	26	23a
MATERNAL BODY WEIGHT (G)					
DAY 0	MEAN±S.D.	294.4 ± 29.6	290.2 ± 23.2	286.3 ± 25.3	289.2 ± 21.2
DAY 7	MEAN±S.D.	331.0 ± 31.4	324.9 ± 26.8	320.5 ± 27.7	324.8 ± 24.0
DAY 14	MEAN±S.D.	363.5 ± 32.5	359.2 ± 29.7	355.4 ± 28.9 [25]b	358.6 ± 23.7
DAY 21	MEAN±S.D.	458.1 ± 40.6	451.4 ± 39.8	451.3 ± 34.6 [25]b	455.0 ± 35.4

DAY = DAY OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3915, which did not have a confirmed mating date.
b. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C6 (PAGE 1): MATERNAL BODY WEIGHT CHANGES - GESTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
INCLUDED IN ANALYSES	N	28	22	26	23a
MATERNAL BODY WEIGHT CHANGE (G)					
DAYS 0 - 7	MEAN±S.D.	+36.6 ± 9.4	+34.7 ± 10.9	+34.2 ± 7.5	+35.6 ± 12.3
DAYS 7 - 14	MEAN±S.D.	+32.5 ± 8.8	+34.3 ± 12.2	+34.9 ± 7.0 [25]b	+33.8 ± 11.9
DAYS 14 - 21	MEAN±S.D.	+94.6 ± 20.9	+92.1 ± 17.4	+96.0 ± 16.9 [25]b	+96.4 ± 23.6
DAYS 0 - 21	MEAN±S.D.	+163.7 ± 26.4	+161.1 ± 27.2	+165.0 ± 19.3 [25]b	+165.8 ± 33.0

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3915, which did not have a confirmed mating date.
b. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C7 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25a	24
MATERNAL BODY WEIGHT (G)					
DAY 1	MEAN±S.D.	337.6 ± 30.6	335.0 ± 29.5	332.5 ± 30.8	339.8 ± 22.4
DAY 4	MEAN±S.D.	341.0 ± 33.2	345.4 ± 23.7	339.5 ± 24.8	338.6 ± 23.7
DAY 7	MEAN±S.D.	352.6 ± 28.0	359.4 ± 18.8	353.2 ± 24.3	354.6 ± 24.6
DAY 14	MEAN±S.D.	348.5 ± 34.3	357.4 ± 31.4	352.3 ± 25.7	349.9 ± 32.6
DAY 21	MEAN±S.D.	351.8 ± 32.9	359.2 ± 23.2	361.3 ± 26.5	353.0 ± 24.3

DAY = DAY OF LACTATION
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C8 (PAGE 1): MATERNAL BODY WEIGHT CHANGES - LACTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED	N	28	22	25a	24
MATERNAL BODY WEIGHT CHANGE (G)					
DAYS 1 - 4	MEAN±S.D.	+3.4 ± 19.7	+10.4 ± 20.1	+7.0 ± 13.7	-1.2 ± 14.4
DAYS 4 - 7	MEAN±S.D.	+11.6 ± 10.1	+14.0 ± 13.8	+13.7 ± 11.4	+16.0 ± 8.6
DAYS 7 - 14	MEAN±S.D.	-4.1 ± 25.1	-2.0 ± 30.2	-0.9 ± 25.2	-4.8 ± 27.0
DAYS 14 - 21	MEAN±S.D.	+3.2 ± 33.4	+1.9 ± 24.8	+9.0 ± 29.0	+3.1 ± 39.5
DAYS 1 - 21	MEAN±S.D.	+14.1 ± 25.3	+24.3 ± 26.6	+28.8 ± 25.0	+13.2 ± 25.1

DAYS = DAYS OF LACTATION
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C9 (PAGE 1): ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - PRECOHABITATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/DAY)					
DAYS 1 - 8	MEAN±S.D.	34.6 ± 5.2 [27]a	32.9 ± 5.5 [29]a	34.6 ± 6.5	32.4 ± 6.4 [28]a
DAYS 8 - 15	MEAN±S.D.	35.8 ± 9.1	31.7 ± 6.1 [29]a	32.4 ± 5.6 [29]a	32.8 ± 8.8 [29]a
DAYS 15 - 22	MEAN±S.D.	38.5 ± 9.3	36.1 ± 10.0	36.7 ± 8.6	36.9 ± 10.2 [29]a
DAYS 22 - 29	MEAN±S.D.	37.8 ± 10.7 [29]a	33.8 ± 9.3 [29]a	34.7 ± 5.9 [28]a	33.9 ± 6.8 [25]a
DAYS 29 - 36	MEAN±S.D.	37.7 ± 12.2 [27]a	34.4 ± 9.7 [29]a	35.3 ± 6.7 [28]a	35.2 ± 8.4 [24]a
DAYS 36 - 43	MEAN±S.D.	38.0 ± 12.0 [28]a	32.7 ± 9.5 [28]a	34.7 ± 8.3 [28]a	35.7 ± 11.9 [25]a
DAYS 43 - 50	MEAN±S.D.	38.0 ± 12.5 [27]a	36.7 ± 10.2 [27]a	37.1 ± 8.5 [27]a	37.7 ± 10.7 [23]a
DAYS 50 - 57	MEAN±S.D.	38.3 ± 12.8 [26]a	32.9 ± 9.3 [25]a	35.0 ± 8.9 [25]a	37.7 ± 13.3 [25]a
DAYS 57 - 64	MEAN±S.D.	36.9 ± 10.8 [24]a	33.4 ± 9.4 [25]a	37.1 ± 8.4 [24]a	35.5 ± 9.5 [23]a
DAYS 64 - 71b	MEAN±S.D.	38.6 ± 10.9 [25]a	36.1 ± 12.3 [26]a	38.4 ± 9.0 [21]a	36.4 ± 9.5 [23]a
DAYS 1 - 71b	MEAN±S.D.	36.6 ± 9.2 [25]a	34.0 ± 8.7 [26]a	35.9 ± 7.1 [21]a	34.2 ± 7.1 [23]a

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C10 (PAGE 1): RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - PRECOHABITATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	203.9 ± 32.2 [27]a	194.5 ± 28.2 [29]a	208.0 ± 35.8	193.4 ± 33.9 [28]a
DAYS 8 - 15	MEAN±S.D.	181.8 ± 52.5	160.4 ± 30.0 [29]a	167.8 ± 25.8 [29]a	169.1 ± 47.6 [29]a
DAYS 15 - 22	MEAN±S.D.	177.6 ± 48.2	166.4 ± 46.1	172.2 ± 37.5	173.1 ± 50.8 [29]a
DAYS 22 - 29	MEAN±S.D.	163.1 ± 52.4 [29]a	145.9 ± 39.4 [29]a	150.3 ± 24.7 [28]a	149.5 ± 32.9 [25]a
DAYS 29 - 36	MEAN±S.D.	152.0 ± 49.1 [27]a	140.3 ± 38.3 [29]a	145.0 ± 28.4 [28]a	147.8 ± 39.7 [24]a
DAYS 36 - 43	MEAN±S.D.	148.7 ± 48.8 [28]a	127.2 ± 35.3 [28]a	137.7 ± 35.6 [28]a	141.9 ± 50.5 [25]a
DAYS 43 - 50	MEAN±S.D.	143.4 ± 46.1 [27]a	136.9 ± 35.2 [27]a	141.6 ± 33.4 [27]a	146.6 ± 46.3 [23]a
DAYS 50 - 57	MEAN±S.D.	138.3 ± 46.1 [26]a	119.2 ± 31.5 [25]a	129.4 ± 34.6 [25]a	138.4 ± 46.6 [25]a
DAYS 57 - 64	MEAN±S.D.	132.8 ± 46.6 [24]a	118.9 ± 32.5 [25]a	134.0 ± 32.3 [24]a	127.9 ± 35.1 [23]a
DAYS 64 - 71b	MEAN±S.D.	134.4 ± 39.7 [25]a	124.3 ± 38.9 [26]a	135.9 ± 31.7 [21]a	127.8 ± 33.8 [23]a
DAYS 1 - 71b	MEAN±S.D.	151.4 ± 38.9 [25]a	139.9 ± 31.9 [26]a	151.6 ± 29.6 [21]a	143.9 ± 30.6 [23]a

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage.
b. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C11 (PAGE 1): MATERNAL ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - GESTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
INCLUDED IN ANALYSES	N	28	22	26	23a
MATERNAL WATER CONSUMPTION (G/DAY)					
DAYS 0 - 7	MEAN±S.D.	50.4 ± 14.2 [22]b	42.4 ± 8.9 [18]b	44.4 ± 8.8 [17]b	44.7 ± 7.9 [16]b
DAYS 7 - 14	MEAN±S.D.	53.0 ± 9.4 [20]b	46.4 ± 9.6 [14]b	48.9 ± 10.0 [13]b,c	49.6 ± 8.8 [13]b
DAYS 14 - 21	MEAN±S.D.	56.2 ± 9.5 [27]b	51.4 ± 10.8	56.0 ± 12.4 [24]b,c	57.0 ± 12.6 [22]b
DAYS 0 - 21	MEAN±S.D.	53.9 ± 8.0 [27]b	48.8 ± 10.0	53.2 ± 10.9 [24]b,c	55.2 ± 13.8 [22]b

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3915, which did not have a confirmed mating date.
b. Excludes values that were associated with spillage.
c. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C12 (PAGE 1): MATERNAL RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - GESTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
INCLUDED IN ANALYSES	N	28	22	26	23a
MATERNAL WATER CONSUMPTION (G/KG/DAY)					
DAYS 0 - 7	MEAN±S.D.	163.3 ± 47.4 [22]b	140.0 ± 27.6 [18]b	147.8 ± 30.4 [17]b	146.3 ± 27.2 [16]b
DAYS 7 - 14	MEAN±S.D.	156.4 ± 36.9 [20]b	135.2 ± 25.1 [14]b	145.1 ± 31.5 [13]b,c	145.9 ± 28.4 [13]b
DAYS 14 - 21	MEAN±S.D.	137.8 ± 24.8 [27]b	126.2 ± 21.4	139.8 ± 31.9 [24]b,c	140.6 ± 32.9 [22]b
DAYS 0 - 21	MEAN±S.D.	150.0 ± 25.9 [27]b	136.5 ± 24.0	151.4 ± 29.8 [24]b,c	154.8 ± 39.6 [22]b

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3915, which did not have a confirmed mating date.
b. Excludes values that were associated with spillage.
c. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C13 (PAGE 1): MATERNAL ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - LACTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25a	24
MATERNAL WATER CONSUMPTION (G/DAY)					
DAYS 1 - 4	MEAN±S.D.	50.5 ± 13.5 [27]b	50.9 ± 15.6 [21]b	53.8 ± 13.4 [21]b	48.8 ± 12.4
DAYS 4 - 7	MEAN±S.D.	74.0 ± 18.3	81.8 ± 36.3 [21]b	80.5 ± 23.6 [22]b	84.4 ± 34.4 [22]b
DAYS 7 - 14c	MEAN±S.D.	88.9 ± 17.3 [24]b	95.4 ± 13.3 [19]b	95.8 ± 15.4 [23]b	95.8 ± 19.2
DAYS 1 - 14c	MEAN±S.D.	75.7 ± 15.3 [24]b	81.9 ± 15.2 [19]b	84.6 ± 16.1 [23]b	81.3 ± 15.6

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
b. Excludes values that were associated with spillage or presumed spillage.
c. Because it is presumed that the pups begin to drink water after day 14 of lactation, maternal water consumption values were not tabulated on days 14 to 21 of lactation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C14 (PAGE 1): MATERNAL RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - LACTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERING LITTERS	N	28	22	25a	24
MATERNAL WATER CONSUMPTION (G/KG/DAY)					
DAYS 1 - 4	MEAN±S.D.	149.4 ± 40.6 [27]b	149.8 ± 43.5 [21]b	161.4 ± 42.0 [21]b	144.9 ± 40.3
DAYS 4 - 7	MEAN±S.D.	214.9 ± 58.3	232.2 ±106.0 [21]b	231.6 ± 64.3 [22]b	242.3 ±100.6 [22]b
DAYS 7 - 14c	MEAN±S.D.	254.6 ± 52.1 [24]b	266.2 ± 38.8 [19]b	272.2 ± 45.4 [23]b	274.2 ± 63.2
DAYS 1 - 14c	MEAN±S.D.	220.4 ± 46.6 [24]b	234.3 ± 42.7 [19]b	246.3 ± 45.8 [23]b	236.5 ± 50.7

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
b. Excludes values that were associated with spillage or presumed spillage.
c. Because it is presumed that the pups begin to drink water after day 14 of lactation, maternal water consumption values were not tabulated on days 14 to 21 of lactation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C15 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - PRECOHABITATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
FEED CONSUMPTION (G)					
DAYS 1 - 8	MEAN±S.D.	20.4 ± 1.3 [29]a	20.4 ± 1.6 [29]a	20.5 ± 2.0	20.3 ± 1.5 [28]a
DAYS 8 - 15	MEAN±S.D.	20.4 ± 2.0 [29]a	20.1 ± 2.0 [25]a	20.6 ± 2.0 [29]a	20.2 ± 2.1 [29]a
DAYS 15 - 22	MEAN±S.D.	21.0 ± 1.9 [28]a	21.1 ± 2.6 [28]a	22.0 ± 2.5 [29]a	20.6 ± 2.0 [29]a
DAYS 22 - 29	MEAN±S.D.	21.3 ± 1.9 [27]a	21.4 ± 3.2 [28]a	22.0 ± 2.5 [27]a	20.9 ± 2.4 [26]a
DAYS 29 - 36	MEAN±S.D.	21.0 ± 2.3	20.9 ± 3.3	21.5 ± 2.4 [29]a	20.3 ± 2.1 [28]a
DAYS 36 - 43	MEAN±S.D.	20.3 ± 2.2 [28]a	20.6 ± 2.6 [27]a	21.4 ± 2.3 [27]a	20.6 ± 2.8
DAYS 43 - 50	MEAN±S.D.	20.5 ± 2.5 [28]a	20.7 ± 2.2 [29]a	20.9 ± 2.0 [29]a	20.2 ± 2.1
DAYS 50 - 57	MEAN±S.D.	19.6 ± 1.7 [28]a	19.3 ± 2.0 [28]a	19.9 ± 1.8 [27]a	19.8 ± 2.2 [26]a
DAYS 57 - 64	MEAN±S.D.	19.7 ± 2.0 [29]a	19.6 ± 2.3	20.4 ± 2.4	19.4 ± 2.3 [25]a
DAYS 64 - 71b	MEAN±S.D.	19.6 ± 2.1 [29]a	19.9 ± 2.7	20.0 ± 2.0 [27]a	19.2 ± 2.0
DAYS 1 - 71b	MEAN±S.D.	20.4 ± 1.6 [29]a	20.4 ± 2.1	20.8 ± 1.6 [27]a	20.2 ± 1.8

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage or soiled feed.
b. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C16 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - PRECOHABITATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
FEED CONSUMPTION (G)					
DAYS 1 - 8	MEAN±S.D.	120.9 ± 7.4 [29]a	121.0 ± 5.9 [29]a	123.1 ± 10.3	122.3 ± 9.5 [28]a
DAYS 8 - 15	MEAN±S.D.	102.7 ± 8.7 [29]a	101.0 ± 7.9 [25]a	107.1 ± 8.8 [29]a	104.4 ± 10.8 [29]a
DAYS 15 - 22	MEAN±S.D.	95.7 ± 7.2 [28]a	96.7 ± 8.3 [28]a	103.4 ± 11.4** [29]a	96.4 ± 7.8 [29]a
DAYS 22 - 29	MEAN±S.D.	90.5 ± 5.9 [27]a	91.2 ± 9.6 [28]a	95.6 ± 10.3 [27]a	90.9 ± 9.2 [26]a
DAYS 29 - 36	MEAN±S.D.	85.1 ± 9.5	84.4 ± 10.1	88.8 ± 10.4 [29]a	83.7 ± 6.6 [28]a
DAYS 36 - 43	MEAN±S.D.	78.6 ± 6.5 [28]a	79.2 ± 6.7 [27]a	84.5 ± 7.5** [27]a	81.9 ± 11.0
DAYS 43 - 50	MEAN±S.D.	76.9 ± 7.1 [28]a	77.0 ± 5.0 [29]a	80.3 ± 8.8 [29]a	77.7 ± 7.8
DAYS 50 - 57	MEAN±S.D.	71.5 ± 5.2 [28]a	69.8 ± 5.2 [28]a	73.4 ± 6.7 [27]a	73.4 ± 8.1 [26]a
DAYS 57 - 64	MEAN±S.D.	70.2 ± 6.2 [29]a	69.5 ± 8.0	73.7 ± 8.7	69.8 ± 6.8 [25]a
DAYS 64 - 71b	MEAN±S.D.	68.2 ± 6.2 [29]a	68.6 ± 8.3	70.8 ± 7.4 [27]a	67.7 ± 6.5
DAYS 1 - 71b	MEAN±S.D.	84.4 ± 4.9 [29]a	84.4 ± 5.8	87.7 ± 6.3 [27]a	85.3 ± 6.6

DAYS = DAYS OF STUDY
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were associated with spillage or soiled feed.
b. Last value recorded before cohabitation.
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C17 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - GESTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
INCLUDED IN ANALYSES	N	28	22	26	23a
MATERNAL FEED CONSUMPTION (G/DAY)					
DAYS 0 - 7	MEAN±S.D.	23.9 ± 2.8 [27]b	24.2 ± 3.5 [18]b	24.3 ± 2.1 [25]b	24.1 ± 2.5 [22]b
DAYS 7 - 14	MEAN±S.D.	25.6 ± 2.8 [27]b	25.5 ± 3.0 [20]b	26.5 ± 2.4 [25]c	25.5 ± 2.4
DAYS 14 - 21	MEAN±S.D.	26.8 ± 2.3	26.9 ± 2.3 [21]b	27.5 ± 2.2 [25]c	27.0 ± 2.3
DAYS 0 - 21	MEAN±S.D.	25.6 ± 2.3	25.6 ± 2.7 [21]b	26.1 ± 1.8 [25]c	25.6 ± 2.1

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3915, which did not have a confirmed mating date.
b. Excludes values that were associated with spillage.
c. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C18 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - GESTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
INCLUDED IN ANALYSES	N	28	22	26	23a
MATERNAL FEED CONSUMPTION (G/KG/DAY)					
DAYS 0 - 7	MEAN±S.D.	76.6 ± 7.3 [27]b	78.6 ± 9.1 [18]b	80.1 ± 7.2 [25]b	78.4 ± 7.0 [22]b
DAYS 7 - 14	MEAN±S.D.	74.0 ± 6.7 [27]b	75.1 ± 6.6 [20]b	78.7 ± 7.2 [25]c	74.6 ± 5.7
DAYS 14 - 21	MEAN±S.D.	65.5 ± 5.1	66.4 ± 4.9 [21]b	68.5 ± 7.1 [25]c	66.5 ± 5.1
DAYS 0 - 21	MEAN±S.D.	70.8 ± 5.1	71.9 ± 5.2 [21]b	74.2 ± 6.0 [25]c	71.8 ± 5.2

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3915, which did not have a confirmed mating date.
b. Excludes values that were associated with spillage.
c. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C19 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - LACTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25a	24
MATERNAL FEED CONSUMPTION (G/DAY)					
DAYS 1 - 4	MEAN±S.D.	27.8 ± 6.0 [27]b	33.3 ± 10.3	31.8 ± 6.8 [24]b	27.9 ± 8.2
DAYS 4 - 7	MEAN±S.D.	47.4 ± 12.4 [27]b	52.6 ± 8.7	51.0 ± 10.9 [23]b	50.5 ± 11.8
DAYS 7 - 14c	MEAN±S.D.	35.0 ± 16.2 [16]b	36.2 ± 10.5 [11]b	33.5 ± 10.0 [17]b	33.0 ± 5.8 [9]b
DAYS 1 - 14c	MEAN±S.D.	36.5 ± 9.4 [16]b	38.8 ± 6.5 [11]b	36.8 ± 5.0 [17]b	36.2 ± 7.9 [9]b

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
b. Excludes values that were associated with spillage or interrupted feed access.
c. Because it is presumed that the pups begin to consume maternal feed after day 14 of lactation, maternal feed consumption values were not tabulated on days 14 to 21 of lactation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C20 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - LACTATION - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25a	24
MATERNAL FEED CONSUMPTION (G/KG/DAY)					
DAYS 1 - 4	MEAN±S.D.	82.5 ± 18.9 [27]b	98.4 ± 29.8*	95.3 ± 23.1 [24]b	82.6 ± 25.1
DAYS 4 - 7	MEAN±S.D.	137.7 ± 40.8 [27]b	149.6 ± 26.6	147.5 ± 31.9 [23]b	146.1 ± 35.1
DAYS 7 - 14c	MEAN±S.D.	97.8 ± 47.1 [16]b	102.0 ± 32.8 [11]b	95.7 ± 31.4 [17]b	93.6 ± 17.7 [9]b
DAYS 1 - 14c	MEAN±S.D.	104.2 ± 29.8 [16]b	110.5 ± 19.5 [11]b	107.9 ± 17.8 [17]b	104.8 ± 23.1 [9]b

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
b. Excludes values that were associated with spillage or interrupted feed access.
c. Because it is presumed that the pups begin to consume maternal feed after day 14 of lactation, maternal feed consumption values were not tabulated on days 14 to 21 of lactation.
* Significantly different from the control group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C21 (PAGE 1): ESTROUS CYCLING, MATING AND FERTILITY - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PRECOHABITATION ESTROUS CYCLING					
RATS EVALUATED	N	30	30	30	30
ESTROUS STAGES/ 14 DAYS	MEAN±S.D.	5.3 ± 0.8	5.2 ± 1.5	5.5 ± 0.9	5.3 ± 1.0
RATS WITH 6 OR MORE CONSECUTIVE DAYS OF DIESTRUS	N	1	3	2	1
RATS WITH 6 OR MORE CONSECUTIVE DAYS OF ESTRUS	N	0	1	0	0

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C21 (PAGE 2): ESTROUS CYCLING, MATING AND FERTILITY - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS IN COHABITATION	N	30	30	30	30
DAYS IN COHABITATION a	MEAN±S.D	3.6 ± 3.2	4.5 ± 4.5	3.1 ± 2.4	3.3 ± 2.7 [29]
RATS THAT MATED	N(%)	30(100.0)	26(86.7)**	29(96.7)	30(100.0)
FERTILITY INDEX b	N/N (%)	28/30 (93.3)	22/26 (84.6)	26/29 (89.6)	24/30 (80.0)
RATS WITH CONFIRMED MATING DATES	N	30	26	29	29
RATS MATING c					
DAYS 1- 7	N(%)	27(90.0)	25(96.2)	29(100.0)	27(93.1)
DAYS 8-14	N(%)	3(10.0)	1(3.8)	0(0.0)	2(6.9)
RATS PREGNANT/RATS IN COHABITATION	N/N (%)	28/30 (93.3)	22/30 (73.3)	26/30 (86.7)	24/30 (80.0)

a. Restricted to rats with a confirmed mating date and rats that did not mate.
b. Number of pregnancies/number of rats that mated.
c. Restricted to rats with a confirmed mating date.
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C22 (PAGE 1): NATURAL DELIVERY OBSERVATIONS - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS ASSIGNED TO NATURAL DELIVERY	N	30	30	30	30
PREGNANT	N(%)	28(93.3)	22(73.3)	26(86.7)	24(80.0)
INCLUDED IN ANALYSES	N	28	22	25a	24
DELIVERED LITTERS	N(%)	28(100.0)	22(100.0)	25(100.0)	24(100.0)
DURATION OF GESTATION b	MEAN±S.D.	22.8 ± 0.4	22.5 ± 0.5	22.7 ± 0.5	22.8 ± 0.5 [23]
IMPLANTATION SITES	N	443	347	376	359
PER DELIVERED LITTER	MEAN±S.D.	15.8 ± 3.1	15.8 ± 3.6	15.0 ± 3.2	15.0 ± 4.1
DAMS WITH STILLBORN PUPS	N(%)	3(10.7)	2(9.1)	1(4.0)	2(8.3)
DAMS WITH NO LIVEBORN PUPS	N	0	0	0	0
GESTATION INDEX	%	100.0	100.0	100.0	100.0
	N/N	28/ 28	22/ 22	25/ 25	24/ 24
DAMS WITH ALL PUPS DYING DAYS 1-4 POSTPARTUM	N(%)	0(0.0)	0(0.0)	0(0.0)	0(0.0)
DAMS WITH ALL PUPS DYING DAYS 5-21 POSTPARTUM	N(%)	0(0.0)	0(0.0)	0(0.0)	0(0.0)

[ ] = NUMBER OF VALUES AVERAGED
GESTATION INDEX = (NUMBER OF DAMS WITH LIVEBORN PUPS/NUMBER OF PREGNANT RATS) X 100.
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
b. Calculated as the time (in days) elapsed between confirmed mating (arbitrarily defined as 0 hour) and the time (in days) the first pup was delivered.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C23 (PAGE 1): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS	N	28	22	25	24
PUPS DELIVERED (TOTAL)	N	421	328	352	335
	MEAN±S.D.	15.0 ± 3.3	14.9 ± 3.6	14.1 ± 3.3	14.0 ± 3.9
LIVEBORN	MEAN±S.D.	14.8 ± 3.1	14.7 ± 3.6	14.0 ± 3.3	13.8 ± 3.8
	N(%)	416(98.8)	324(98.8)	350(99.4)	332(99.1)
STILLBORN	MEAN±S.D.	0.1 ± 0.4	0.2 ± 0.6	0.0 ± 0.2	0.1 ± 0.4
	N(%)	4(1.0)	4(1.2)	1(0.3)	3(0.9)
UNKNOWN VITAL STATUS	N	1	0	1	0
PUPS FOUND DEAD OR PRESUMED CANNIBALIZED					
DAY 1	N/N(%)	5/416(1.2)	2/324(0.6)	0/350(0.0)	0/332(0.0)
DAYS 2- 4	N/N(%)	6/411(1.4)	4/322(1.2)	4/350(1.1)	7/332(2.1)
DAYS 5- 7	N/N(%)	9/405(2.2)	8/318(2.5)	2/346(0.6)	2/325(0.6)
DAYS 8-14	N/N(%)	5/396(1.3)	7/310(2.2)	4/344(1.2)	2/323(0.6)
DAYS 15-21	N/N(%)	1/391(0.2)	0/303(0.0)	0/340(0.0)	0/321(0.0)
VIABILITY INDEX a	%	97.4	98.1	98.8	97.9
	N/N	405/416	318/324	346/350	325/332
LACTATION INDEX b	%	96.3	95.3	98.3	98.8
	N/N	390/405	303/318	340/346*	321/325**

DAY(S) = DAY(S) POSTPARTUM
a. Number of live pups on day 4 postpartum/number of liveborn pups on day 1 postpartum.
b. Number of live pups on day 21 postpartum/number of live pups on day 4 postpartum.
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C23 (PAGE 2): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS	N	28	22	25	24
SURVIVING PUPS/LITTER a					
DAY 1 b	MEAN±S.D.	14.6 ± 3.1	14.7 ± 3.6	14.0 ± 3.3	13.8 ± 3.8
DAY 4	MEAN±S.D.	14.5 ± 2.9	14.4 ± 3.5	13.8 ± 3.4	13.5 ± 3.8
DAY 7	MEAN±S.D.	14.1 ± 3.1	14.1 ± 3.3	13.8 ± 3.4	13.4 ± 3.8
DAY 14	MEAN±S.D.	14.0 ± 3.1	13.8 ± 3.1	13.6 ± 3.2	13.4 ± 3.7
DAY 21	MEAN±S.D.	13.9 ± 3.0	13.8 ± 3.1	13.6 ± 3.2	13.4 ± 3.7
PERCENT MALE PUPS PER NUMBER OF PUPS SEXED					
DAY 1 b	MEAN±S.D.	49.1 ± 13.0	49.3 ± 12.0	48.9 ± 15.0	48.8 ± 15.5
DAY 4	MEAN±S.D.	49.2 ± 13.2	49.0 ± 12.2	49.1 ± 15.6	48.2 ± 15.9
DAY 7	MEAN±S.D.	49.4 ± 13.4	49.2 ± 12.4	49.4 ± 15.8	48.2 ± 15.9
DAY 14	MEAN±S.D.	50.0 ± 13.4	49.3 ± 12.3	49.8 ± 15.8	48.1 ± 16.0
DAY 21	MEAN±S.D.	50.1 ± 13.3	49.3 ± 12.3	49.8 ± 15.8	48.1 ± 16.0

DAY = DAY POSTPARTUM
a. Average number of live pups per litter, including litters with no surviving pups.
b. Includes pups born alive, found dead day 1 postpartum.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C23 (PAGE 3): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS	N	28	22	25	24
LIVE LITTER SIZE AT WEIGHING					
DAY 1	MEAN±S.D.	14.7 ± 3.0	14.6 ± 3.6	14.0 ± 3.3	13.8 ± 3.9
DAY 4	MEAN±S.D.	14.5 ± 2.9	14.4 ± 3.5	13.8 ± 3.4	13.5 ± 3.8
DAY 7	MEAN±S.D.	14.1 ± 3.1	14.1 ± 3.3	13.8 ± 3.4	13.4 ± 3.8
DAY 14	MEAN±S.D.	14.0 ± 3.1	13.8 ± 3.1	13.6 ± 3.2	13.4 ± 3.7
DAY 21	MEAN±S.D.	13.9 ± 3.0	13.8 ± 3.1	13.6 ± 3.2	13.4 ± 3.7
PUP WEIGHT/LITTER (GRAMS)					
DAY 1	MEAN±S.D.	6.6 ± 0.7	6.4 ± 0.6	6.7 ± 0.6	6.6 ± 0.6
DAY 4	MEAN±S.D.	9.0 ± 1.6	9.0 ± 1.3	9.3 ± 1.4	9.2 ± 0.9
DAY 7	MEAN±S.D.	12.6 ± 2.8	13.1 ± 2.1	13.4 ± 2.4	13.3 ± 1.4
DAY 14	MEAN±S.D.	24.4 ± 4.7	26.1 ± 4.0	26.2 ± 5.3	26.0 ± 3.3
DAY 21	MEAN±S.D.	37.9 ± 7.4	39.5 ± 6.9	40.5 ± 9.6	39.9 ± 5.9

DAY = DAY POSTPARTUM

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C24 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - SUMMARY - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
LITTERS EXAMINED (N)		28	22	25	24
TRANSIENT CLINICAL OBSERVATIONS: a		TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS			
LEFT FOREPAW, SWOLLEN	N/N	0/ 0	0/ 0	0/ 0	19/ 1
LEFT HINDPAW, RAISED BLACK AREA	N/N	0/ 0	0/ 0	0/ 0	7/ 1
RIGHT HINDLIMB, SWOLLEN	N/N	0/ 0	0/ 0	0/ 0	7/ 1
NOT NURSING	N/N	0/ 0	0/ 0	0/ 0	2/ 1
APPEARED YELLOW	N/N	0/ 0	0/ 0	0/ 0	2/ 1
SNOUT, SWOLLEN	N/N	0/ 0	0/ 0	0/ 0	2/ 1
NECK, DRY SKIN	N/N	0/ 0	0/ 0	0/ 0	1/ 1
ABRASION b	N/N	0/ 0	18/ 2	0/ 0	0/ 0
SCAB c	N/N	0/ 0	13/ 1	0/ 0	0/ 0
NOSE, RAISED BLACK AREA	N/N	0/ 0	4/ 1	0/ 0	0/ 0
ANOPHTHALMOS	N/N	0/ 0	2/ 1	0/ 0	0/ 0
DECREASED MOTOR ACTIVITY	N/N	0/ 0	1/ 1	0/ 0	0/ 0
LOST RIGHTING REFLEX	N/N	0/ 0	1/ 1	0/ 0	0/ 0
EMACIATION	N/N	0/ 0	1/ 1	0/ 0	0/ 0
DYSPNEA	N/N	0/ 0	1/ 1	0/ 0	0/ 0
APPEARED BLUE	N/N	0/ 0	1/ 1	0/ 0	0/ 0

STATISTICAL ANALYSES WERE RESTRICTED TO THE NUMBER OF LITTERS WITH OBSERVATIONS.
N/N = TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS
a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Located on the right pinna, lower midline, right forelimb, chest, nose and right flank.
c. Located on the lower midline, right forelimb, chest, nose and right flank.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C24 (PAGE 2): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - SUMMARY - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
LITTERS EXAMINED (N)		28	22	25	24
TRANSIENT CLINICAL OBSERVATIONS: a		TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS			
LABORED BREATHING	N/N	0/ 0	1/ 1	0/ 0	0/ 0
RIGHT FLANK, ULCERATION	N/N	0/ 0	2/ 1	0/ 0	0/ 0
APPEARED THIN	N/N	0/ 0	1/ 1	0/ 0	0/ 0
PERSISTENT CLINICAL OBSERVATIONS: a		TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS			
PORTION OF TAIL BLACK	N/N	24/ 1	0/ 0	10/ 1	8/ 1
PORTION OF TAIL MISSING	N/N	57/ 3	0/ 0	21/ 2	0/ 0
TAIL, CONSTRICTED	N/N	0/ 0	0/ 0	15/ 1	0/ 0

STATISTICAL ANALYSES WERE RESTRICTED TO THE NUMBER OF LITTERS WITH OBSERVATIONS.
N/N = TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS
a. Tabulation restricted to adverse observations; all other pups appeared normal.

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C25 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED a	N	30	30	29b	30
MORIBUND SACRIFICED	N	0	0	1c	0
APPEARED NORMAL	N	28	30	28c	28
UTERUS:					
RIGHT HORN, CONSTRICTED	N	1	0	0	0
BILATERAL, RIGHT OR LEFT HORN, MODERATE TO EXTREME HYDROMETRA	N	1	0	0	1
VAGINA:					
DISTENDED WITH CLEAR FLUID	N	1	0	0	0
COLON:					
PINWORMS FOUND	N	0	0	0	1

a. Refer to the individual clinical observations table (Table C32) for external observations confirmed at necropsy.
b. Excludes dam 3872, necropsy observations were not recorded.
c. Dam 3881 was moribund sacrificed on day 9 of gestation.

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C26 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25a	24
TERMINAL BODY WEIGHT	MEAN±S.D.	351.8 ± 32.9	359.2 ± 23.2	361.3 ± 26.5	353.0 ± 24.3
PITUITARY	MEAN±S.D.	0.014 ± 0.005	0.018 ± 0.006	0.017 ± 0.005	0.015 ± 0.006 [23]b
BRAIN	MEAN±S.D.	2.19 ± 0.13	2.19 ± 0.08	2.20 ± 0.11	2.18 ± 0.12
LIVER	MEAN±S.D.	19.31 ± 2.36	19.90 ± 2.27	19.64 ± 1.84	19.38 ± 2.40
KIDNEY PAIRED	MEAN±S.D.	3.20 ± 0.27	3.32 ± 0.41	3.20 ± 0.33	3.20 ± 0.24
ADRENAL PAIRED	MEAN±S.D.	0.103 ± 0.016	0.096 ± 0.020	0.107 ± 0.030	0.100 ± 0.014
SPLEEN	MEAN±S.D.	0.75 ± 0.12	0.78 ± 0.15	0.72 ± 0.14	0.72 ± 0.14
OVARY PAIRED	MEAN±S.D.	0.132 ± 0.023	0.149 ± 0.027*	0.123 ± 0.026	0.130 ± 0.029
THYROID	MEAN±S.D.	0.024 ± 0.004	0.025 ± 0.004 [21]b	0.025 ± 0.004 [24]c	0.030 ± 0.004**
HEART	MEAN±S.D.	1.36 ± 0.11	1.34 ± 0.15	1.34 ± 0.13	1.38 ± 0.14

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
b. Excludes values that were not recorded.
c. Excludes values for rats that had organs damaged (weight affected).
* Significantly different from the control group value ($p \leq 0.05$).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C27 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)		1 0 (CARRIER)	2 0.3	3 3.0	4 30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25a	24
TERMINAL BODY WEIGHT	MEAN±S.D.	351.8 ± 32.9	359.2 ± 23.2	361.3 ± 26.5	353.0 ± 24.3
PITUITARY b	MEAN±S.D.	4.175 ± 1.524	4.963 ± 1.685	4.871 ± 1.600	4.376 ± 1.872 [23]c
BRAIN	MEAN±S.D.	0.628 ± 0.064	0.611 ± 0.051	0.612 ± 0.048	0.619 ± 0.061
LIVER	MEAN±S.D.	5.485 ± 0.359	5.534 ± 0.438	5.446 ± 0.456	5.486 ± 0.515
KIDNEY PAIRED	MEAN±S.D.	0.915 ± 0.102	0.925 ± 0.102	0.889 ± 0.116	0.908 ± 0.073
ADRENAL PAIRED	MEAN±S.D.	0.029 ± 0.006	0.026 ± 0.007	0.028 ± 0.009	0.028 ± 0.005
SPLEEN	MEAN±S.D.	0.215 ± 0.040	0.216 ± 0.039	0.200 ± 0.045	0.204 ± 0.039
OVARY PAIRED	MEAN±S.D.	0.038 ± 0.008	0.041 ± 0.009	0.035 ± 0.009	0.037 ± 0.009
THYROID b	MEAN±S.D.	6.882 ± 1.233	6.970 ± 1.080 [21]c	6.904 ± 1.162 [24]d	8.505 ± 1.370**
HEART	MEAN±S.D.	0.389 ± 0.037	0.372 ± 0.034	0.372 ± 0.042	0.392 ± 0.048

ALL WEIGHTS WERE RECORDED IN GRAMS (G). REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.
b. Value was multiplied by 1000.
c. Excludes values that were not recorded.
d. Excludes values for rats that had organs damaged (weight affected).
** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C28 (PAGE 1): RATIOS (%) OF BRAIN WEIGHT TO ORGAN WEIGHT - SUMMARY - P1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	28	22	26	24
DELIVERED LITTERS	N	28	22	25a	24
BRAIN WEIGHT	MEAN±S.D.	2.19 ± 0.13	2.19 ± 0.08	2.20 ± 0.11	2.18 ± 0.12
PITUITARY	MEAN±S.D.	0.66 ± 0.23	0.82 ± 0.30	0.79 ± 0.24	0.70 ± 0.26 [23]b
LIVER	MEAN±S.D.	882.30 ±109.83	910.82 ±104.37	894.55 ±101.98	891.55 ±107.58
KIDNEY PAIRED	MEAN±S.D.	146.03 ± 11.97	152.38 ± 20.51	145.37 ± 16.42	147.23 ± 11.94
ADRENAL PAIRED	MEAN±S.D.	4.70 ± 0.76	4.41 ± 0.87	4.86 ± 1.29	4.60 ± 0.76
SPLEEN	MEAN±S.D.	34.26 ± 5.63	35.66 ± 7.09	32.84 ± 6.44	33.33 ± 6.81
OVARY PAIRED	MEAN±S.D.	6.06 ± 1.15	6.80 ± 1.28	5.62 ± 1.30	5.99 ± 1.50
THYROID	MEAN±S.D.	1.10 ± 0.19	1.15 ± 0.17 [21]b	1.13 ± 0.21 [24]c	1.37 ± 0.20**
HEART	MEAN±S.D.	62.24 ± 6.42	61.54 ± 7.29	60.80 ± 5.85	63.71 ± 7.97

ALL WEIGHTS WERE RECORDED IN GRAMS (G). REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for dam 3881, which was moribund sacrificed on day 9 of gestation.

b. Excludes values that were not recorded.

c. Excludes values for rats that had organs damaged (weight affected).

** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C29 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
LITTERS EXAMINED (N)		28	22	25	24
TOTAL PUPS STILLBORN OR FOUND DEAD a	N	19	13	7	9
STILLBORN	N	4	4	1	3
FOUND DEAD	N	15	8	6	6
MORIBUND SACRIFICED	N	0	1	0	0
NO MILK IN STOMACH b	N(%)	4(21.0)	6(46.2)	1(12.5)	2(22.2)
TONGUE PROTRUDING	N(%)	0(0.0)	0(0.0)	0(0.0)	1(11.1)
MICROAGNATHIA	N(%)	0(0.0)	0(0.0)	0(0.0)	1(11.1)
SHORT SNOUT	N(%)	0(0.0)	0(0.0)	0(0.0)	1(11.1)
EARS LOWSET	N(%)	0(0.0)	0(0.0)	0(0.0)	1(11.1)
LEFT EYELIDS OPEN	N(%)	0(0.0)	0(0.0)	0(0.0)	1(11.1)
SPINA BIFIDA	N(%)	0(0.0)	0(0.0)	0(0.0)	1(11.1)
RIGHT FOREPAW FLEXED	N(%)	0(0.0)	0(0.0)	0(0.0)	1(11.1)

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation.
b. Analysis restricted to pups found dead or moribund sacrificed and necropsied.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C29 (PAGE 2): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PUPS SACRIFICED AND NECROPSIED ON DAY 21 POSTPARTUM a					
LITTERS EVALUATED	N	28	22	25	24
PUPS EVALUATED	N	161	124	143	134
APPEARED NORMAL					
LITTER INCIDENCE	N(%)	27(96.4)	21(95.4)	25(100.0)	22(91.7)
PUP INCIDENCE	N(%)	160(99.4)	123(99.2)	143(100.0)	130(97.0)
KIDNEYS: RIGHT, PELVIS, SLIGHT TO MODERATE DILATION					
LITTER INCIDENCE	N(%)	1(3.6)	1(4.5)	0(0.0)	2(8.3)
PUP INCIDENCE	N(%)	1(0.6)	1(0.8)	0(0.0)	4(3.0)

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C30 (PAGE 1): ORGAN WEIGHTS - SUMMARY - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PUPS EXAMINED	N	80	61	73	67
INCLUDED IN ANALYSES	N	80	60a	73	67
BRAIN	MEAN±S.D.	1.45±0.12	1.45±0.07	1.47±0.10	1.47±0.08
SPLEEN	MEAN±S.D.	0.13±0.04	0.14±0.04	0.15±0.06	0.15±0.05
THYMUS	MEAN±S.D.	0.17±0.04	0.18±0.04	0.18±0.07	0.18±0.05
THYROID/PARATHYROID	MEAN±S.D.	0.008±0.002	0.008±0.002	0.008±0.002	0.010±0.002**
		[77]b,c	[58]b,c	[71]b,c	[65]b,c

[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for organs for male pup 3837-3 which was saved in the same bottle as female pup 3837-10.

b. Excludes values for pups that had abnormal organs (weight affected) or organs damaged (weight affected).

c. Excludes values that were not recorded.

** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C31 (PAGE 1): ORGAN WEIGHTS - SUMMARY - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PUPS EXAMINED	N	82	63	69	67
INCLUDED IN ANALYSES	N	82	62a	69	67
BRAIN	MEAN±S.D.	1.42±0.10	1.44±0.11	1.43±0.10	1.43±0.09
SPLEEN	MEAN±S.D.	0.13±0.06	0.15±0.05	0.14±0.07	0.15±0.05*
THYMUS	MEAN±S.D.	0.18±0.05	0.19±0.05	0.18±0.06	0.19±0.05
THYROID/PARATHYROID	MEAN±S.D.	0.008±0.002 [81]b	0.009±0.002 [58]b,c	0.008±0.002 [66]c	0.010±0.002** [66]b

[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for organs for female pup 3837-10 which was saved in the same bottle as male pup 3837-3.

b. Excludes values for pups that had organs damaged (weight affected).

c. Excludes values that were not recorded or incorrectly recorded.

* Significantly different from the control group value ($p \leq 0.05$).

** Significantly different from the control group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
3801		NO ADVERSE FINDINGS
3802		NO ADVERSE FINDINGS
3803	DG(2- 21)	LOCALIZED ALOPECIA: LIMBS
	DL(1- 21)	LOCALIZED ALOPECIA: LIMBS a
3804		NO ADVERSE FINDINGS
3805	DG(7- 21)	SWOLLEN AND PURPLE EAR(S)
	DL(1- 21)	SWOLLEN AND PURPLE EAR(S)
3806		NO ADVERSE FINDINGS
3807		NO ADVERSE FINDINGS
3808	DS(35- 37)	LOCALIZED ALOPECIA: LIMBS
	DS(38)	ALOPECIA NO LONGER APPARENT
	DS(62- 72)	LOCALIZED ALOPECIA: LIMBS
	DS(73)	ALOPECIA NO LONGER APPARENT
	DG(1- 20)	LOCALIZED ALOPECIA: LIMBS
	DL(1- 21)	LOCALIZED ALOPECIA: LIMBS a
	DL(12- 21)	LOCALIZED ALOPECIA: UNDERSIDE a
3809		NO ADVERSE FINDINGS
3810		NO ADVERSE FINDINGS
3811	DS(73)	LEFT INGUINAL AREA: LESION (0.4 CM IN DIAMETER)
	DG(0- 3)	LEFT INGUINAL AREA: LESION (0.4 CM IN DIAMETER)
	DG(4)	LESION HEALED
3812	DS(9- 13)	NECK: LESION (0.3 CM IN DIAMETER)
	DS(14)	LESION HEALED
	DS(14- 20)	LOCALIZED ALOPECIA: HEAD
	DS(21)	ALOPECIA NO LONGER APPARENT
	DS(20- 71)	LOCALIZED ALOPECIA: LIMBS
	DS(72)	ALOPECIA NO LONGER APPARENT
	DG(4- 13)	LOCALIZED ALOPECIA: LIMBS
	DG(14)	ALOPECIA NO LONGER APPARENT
	DL(1- 10)	LOCALIZED ALOPECIA: LIMBS
	DL(11)	ALOPECIA NO LONGER APPARENT
	DL(14- 21)	LOCALIZED ALOPECIA: LIMBS a
3813		NO ADVERSE FINDINGS

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
3814	DS(12- 14)	LOCALIZED ALOPECIA: NECK
	DS(15)	ALOPECIA NO LONGER APPARENT
	DS(31- 56)	LOCALIZED ALOPECIA: LIMBS
	DS(57)	ALOPECIA NO LONGER APPARENT
	DL(14- 20)	LOCALIZED ALOPECIA: LIMBS
	DL(21)	ALOPECIA NO LONGER APPARENT
3815	DS(50- 62)	INCISORS: MISALIGNED
	DS(63)	INCISORS: REALIGNED
	DS(51- 63)	INCISORS: MISSING/BROKEN
	DS(64)	INCISORS: GROWN IN
3816		NO ADVERSE FINDINGS
3817		NO ADVERSE FINDINGS
3818		NO ADVERSE FINDINGS
3819	DL(18- 21)	SWOLLEN AND PURPLE EAR(S)
3820		NO ADVERSE FINDINGS
3821		NO ADVERSE FINDINGS
3822		NO ADVERSE FINDINGS
3823	DG(16- 22)	LOCALIZED ALOPECIA: UNDERSIDE
	DL(1- 4)	LOCALIZED ALOPECIA: UNDERSIDE
	DL(5)	ALOPECIA NO LONGER APPARENT
3824	DS(33- 72)	HEAD TILT
	DG(0- 21)	HEAD TILT
	DL(1- 21)	HEAD TILT
	DL(7- 21)	SWOLLEN AND PURPLE EAR(S)
3825		NO ADVERSE FINDINGS
3826		NO ADVERSE FINDINGS
3827		NO ADVERSE FINDINGS
3828	DS(34)	CHROMORHINORRHEA
	DG(15- 20)	LOCALIZED ALOPECIA: UNDERSIDE
	DL(1- 19)	LOCALIZED ALOPECIA: UNDERSIDE
	DL(20)	ALOPECIA NO LONGER APPARENT
	DL(14- 21)	SWOLLEN AND PURPLE EAR(S)
3829		NO ADVERSE FINDINGS

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
3830	DS(10- 14)	NECK: LESION (0.4 CM IN DIAMETER)
	DS(15)	LESION HEALED
	DS(15- 16)	LOCALIZED ALOPECIA: NECK
	DS(17)	ALOPECIA NO LONGER APPARENT
	DS(22- 32)	NECK: LESION (0.2 CM IN DIAMETER)
	DS(33)	LESION HEALED
	DS(33- 42)	LOCALIZED ALOPECIA: NECK
	DS(43)	ALOPECIA NO LONGER APPARENT

DS = DAY OF STUDY

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
3831		NO ADVERSE FINDINGS
3832		NO ADVERSE FINDINGS
3833	DS(52- 61)	INCISORS: MISALIGNED
	DS(62)	INCISORS: REALIGNED
	DS(52- 62)	INCISORS: MISSING/BROKEN
	DS(63)	INCISORS: GROWN IN
3834		NO ADVERSE FINDINGS
3835	DS(89-110)	SWOLLEN AND PURPLE EAR(S)
3836		NO ADVERSE FINDINGS
3837		NO ADVERSE FINDINGS
3838	DG(12- 13)	CHROMORHINORRHEA
3839		NO ADVERSE FINDINGS
3840		NO ADVERSE FINDINGS
3841	DS(10- 13)	BELOW RIGHT EAR: LESION (0.2 CM IN DIAMETER)
	DS(14)	LESION HEALED
	DS(14- 16)	LOCALIZED ALOPECIA: HEAD
	DS(17)	ALOPECIA NO LONGER APPARENT
3842	DS(45- 55)	LOCALIZED ALOPECIA: UNDERSIDE
	DS(56)	ALOPECIA NO LONGER APPARENT
	DG(3- 21)	SWOLLEN AND PURPLE EAR(S)
	DL(1- 21)	SWOLLEN AND PURPLE EAR(S)
3843	DS(5- 8)	HEAD: LESION (0.2 CM IN DIAMETER)
	DS(9)	LESION HEALED
3844		NO ADVERSE FINDINGS
3845		NO ADVERSE FINDINGS
3846		NO ADVERSE FINDINGS
3847	DS(3- 6)	HEAD: LESION (1.0 CM X 0.5 CM)
	DS(7)	LESION HEALED
	DS(7- 8)	LOCALIZED ALOPECIA: HEAD
	DS(9)	ALOPECIA NO LONGER APPARENT
	DS(21- 31)	LOCALIZED ALOPECIA: HEAD
	DS(32)	ALOPECIA NO LONGER APPARENT
3848		NO ADVERSE FINDINGS

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
3849		NO ADVERSE FINDINGS
3850	DS(27- 30)	CHROMODACRYORRHEA
	DS(33- 35)	CHROMODACRYORRHEA
3851	DS(20- 74)	LOCALIZED ALOPECIA: LIMBS
	DG(0- 21)	LOCALIZED ALOPECIA: LIMBS
	DG(3- 21)	SWOLLEN AND PURPLE EAR(S)
	DL(1- 21)	SWOLLEN AND PURPLE EAR(S)
	DL(1- 21)	LOCALIZED ALOPECIA: LIMBS a
3852	DL(5- 14)	RIGHT INGUINAL: TWO MASSES (DID NOT EXCEED 2.0 CM X 2.0 CM X 2.5 CM)
	DL(15- 21)	RIGHT INGUINAL: MASS (2.0 CM X 2.0 CM X 2.5 CM) a
	DL(15- 21)	RIGHT FLANK: MASS (1.0 CM X 1.0 CM X 0.5 CM) a
3853		NO ADVERSE FINDINGS
3854	DG(4- 15)	CHROMORHINORRHEA
	DG(4- 21)	CHROMODACRYORRHEA
	DG(4- 21)	INCISORS: MISALIGNED
	DL(1- 21)	CHROMODACRYORRHEA a
	DL(1- 21)	INCISORS: MISALIGNED a
	DL(4- 5)	CHROMORHINORRHEA
3855		NO ADVERSE FINDINGS
3856		NO ADVERSE FINDINGS
3857	DS(20- 30)	BACK: LESION (DID NOT EXCEED 0.2 CM X 1.0 CM)
	DS(31)	LESION HEALED
	DS(24- 35)	LOCALIZED ALOPECIA: BACK
	DS(36)	ALOPECIA NO LONGER APPARENT
	DS(37- 42)	LEFT FORELIMB: LESION (0.2 CM IN DIAMETER)
	DS(43)	LESION HEALED
	DL(6- 21)	LOCALIZED ALOPECIA: LIMBS a
3858	DL(4- 5)	RED PERIVAGINAL SUBSTANCE
	DL(4- 5)	PALE SKIN
3859	DG(13- 18)	SWOLLEN AND PURPLE EAR(S)
	DG(19)	SWELLING AND DISCOLORATION NO LONGER APPARENT
	DL(5- 18)	SWOLLEN AND PURPLE EAR(S)
	DL(19)	SWELLING AND DISCOLORATION NO LONGER APPARENT
3860		NO ADVERSE FINDINGS

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
3861		NO ADVERSE FINDINGS
3862		NO ADVERSE FINDINGS
3863		NO ADVERSE FINDINGS
3864	DG(13- 20)	LOCALIZED ALOPECIA: LIMBS
	DG(21)	ALOPECIA NO LONGER APPARENT
3865		NO ADVERSE FINDINGS
3866		NO ADVERSE FINDINGS
3867		NO ADVERSE FINDINGS
3868		NO ADVERSE FINDINGS
3869		NO ADVERSE FINDINGS
3870		NO ADVERSE FINDINGS
3871	DS(43-110)	INCISORS: MISALIGNED a
	DS(85-110)	INCISORS: MISSING/BROKEN a
3872	DS(41- 49)	LOCALIZED ALOPECIA: LIMBS
	DS(50)	ALOPECIA NO LONGER APPARENT
3873		NO ADVERSE FINDINGS
3874	DG(17- 24)	LOCALIZED ALOPECIA: BACK
	DG(25)	ALOPECIA NO LONGER APPARENT
3875		NO ADVERSE FINDINGS
3876	DS(43)	DEHYDRATION
3877	DG(4- 21)	SWOLLEN AND PURPLE EAR(S)
	DL(1- 21)	SWOLLEN AND PURPLE EAR(S)
3878		NO ADVERSE FINDINGS
3879	DL(10- 21)	SWOLLEN AND PURPLE EAR(S)
3880	DG(17- 21)	INCISORS: MISALIGNED
	DG(17- 21)	INCISORS: MISSING/BROKEN
	DL(1- 6)	INCISORS: MISSING/BROKEN
	DL(7)	INCISORS: GROWN IN
	DL(1- 7)	INCISORS: MISALIGNED
	DL(8)	INCISORS: REALIGNED

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
3881	DG(9)	CHROMORHINORRHEA a
	DG(9)	CHROMODACRYORRHEA a
	DG(9)	SWOLLEN SNOUT a
	DG(9)	INCISORS: MISALIGNED a
	DG(9)	BROKEN HARD PALATE a
	DG(9)	LABORED BREATHING
	DG(9)	MORIBUND SACRIFICED
3882		NO ADVERSE FINDINGS
3883		NO ADVERSE FINDINGS
3884		NO ADVERSE FINDINGS
3885		NO ADVERSE FINDINGS
3886		NO ADVERSE FINDINGS
3887		NO ADVERSE FINDINGS
3888		NO ADVERSE FINDINGS
3889	DS(35- 71)	LOCALIZED ALOPECIA: LIMBS
	DS(47)	ALOPECIA NO LONGER APPARENT
	DG(0- 12)	LOCALIZED ALOPECIA: LIMBS
	DG(13)	ALOPECIA NO LONGER APPARENT
	DL(2- 21)	LOCALIZED ALOPECIA: LIMBS a
3890	DS(65- 74)	LOCALIZED ALOPECIA: UNDERSIDE
	DG(0)	ALOPECIA NO LONGER APPARENT
	DG(5- 22)	SWOLLEN AND PURPLE EAR(S)
	DL(1- 21)	SWOLLEN AND PURPLE EAR(S)

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
3891		NO ADVERSE FINDINGS
3892		NO ADVERSE FINDINGS
3893		NO ADVERSE FINDINGS
3894		NO ADVERSE FINDINGS
3895	DS(21)	CHROMORHINORRHEA
3896		NO ADVERSE FINDINGS
3897		NO ADVERSE FINDINGS
3898	DS(73- 74)	CHROMODACRYORRHEA
	DS(73- 75)	INCISORS: MISALIGNED
	DG(0- 5)	INCISORS: MISALIGNED
	DG(6)	INCISORS: REALIGNED
3899	DS(10- 28)	NECK: LESION (0.4 CM IN DIAMETER)
	DS(29)	LESION HEALED
3900		NO ADVERSE FINDINGS
3901		NO ADVERSE FINDINGS
3902		NO ADVERSE FINDINGS
3903		NO ADVERSE FINDINGS
3904		NO ADVERSE FINDINGS
3905		NO ADVERSE FINDINGS
3906		NO ADVERSE FINDINGS
3907	DS(9- 22)	NECK: LESION (DID NOT EXCEED 0.4 CM IN DIAMETER)
	DS(23)	LESION HEALED
	DS(23- 42)	LOCALIZED ALOPECIA: NECK
	DS(43)	ALOPECIA NO LONGER APPARENT
3908	DG(1- 4)	SWOLLEN AND PURPLE EAR(S)
	DG(5)	SWELLING AND DISCOLORATION NO LONGER APPARENT
3909	DG(8- 10)	SWOLLEN AND PURPLE EAR(S)
	DG(11)	SWELLING AND DISCOLORATION NO LONGER APPARENT
3910		NO ADVERSE FINDINGS
3911	DL(12- 18)	SWOLLEN AND PURPLE EAR(S)
	DL(19)	SWELLING AND DISCOLORATION NO LONGER APPARENT
	DL(16- 18)	CHROMORHINORRHEA

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C32 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
3912	DG(17- 19)	INCISORS: MISSING/BROKEN
	DG(20)	INCISORS: GROWN IN
	DG(17- 20)	INCISORS: MISALIGNED
	DG(21)	INCISORS: REALIGNED
	DG(17- 22)	NOSE: LESION (0.1 CM IN DIAMETER)
	DL(1- 13)	NOSE: LESION (0.1 CM IN DIAMETER)
	DL(14)	LESION HEALED
3913		NO ADVERSE FINDINGS
3914	DG(9- 25)	SWOLLEN AND PURPLE EAR(S)
3915	DS(1)	DEHYDRATION
3916	DS(2- 6)	HEAD: LESION (0.3 CM IN DIAMETER)
	DS(7)	LESION HEALED
	DS(7- 28)	LOCALIZED ALOPECIA: HEAD
	DS(29)	ALOPECIA NO LONGER APPARENT
3917		NO ADVERSE FINDINGS
3918	DS(69- 73)	INCISORS: MISALIGNED
	DS(69- 73)	INCISORS: MISSING/BROKEN
	DG(0- 1)	INCISORS: MISSING/BROKEN
	DG(2)	INCISORS: GROWN IN
	DG(0- 21)	INCISORS: MISALIGNED
	DL(1- 21)	INCISORS: MISALIGNED a
	DL(7- 21)	INCISORS: MISSING/BROKEN a
3919		NO ADVERSE FINDINGS
3920		NO ADVERSE FINDINGS

DS = DAY OF STUDY DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C33 (PAGE 1): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a
RAT #	DOSAGE GROUP 1								0 (CARRIER) MG/KG/DAY		
3801	140.	170.	202.	224.	238.	238.	253.	267.	265.	263.	281.
3802	168.	208.	224.	235.	258.	278.	294.	296.	308.	316.	314.
3803	151.	174.	208.	225.	231.	237.	249.	248.	258.	270.	260.
3804	150.	185.	207.	222.	240.	250.	250.	266.	273.	280.	276.
3805	141.	172.	196.	211.	235.	243.	255.	260.	267.	274.	286.
3806	163.	203.	238.	253.	276.	296.	306.	315.	326.	335.	342.
3807	156.	200.	226.	257.	261.	294.	308.	321.	322.	333.	348.
3808	154.	188.	214.	219.	223.	244.	249.	262.	270.	284.	289.
3809	141.	187.	219.	230.	251.	260.	274.	284.	275.	292.	299.
3810	163.	186.	208.	221.	230.	238.	253.	267.	270.	276.	284.
3811	151.	194.	208.	223.	236.	249.	254.	265.	271.	280.	290.
3812	154.	194.	206.	227.	241.	251.	252.	262.	261.	275.	278.
3813	147.	183.	210.	228.	254.	271.	289.	297.	302.	309.	310.
3814	163.	203.	226.	245.	257.	270.	278.	294.	306.	306.	317.
3815	154.	187.	206.	227.	247.	259.	267.	262.	277.	281.	280.
3816	154.	191.	207.	233.	245.	255.	257.	276.	286.	293.	289.
3817	146.	181.	204.	227.	244.	259.	248.	262.	279.	285.	308.
3818	160.	196.	218.	246.	260.	271.	278.	290.	304.	314.	318.
3819	155.	187.	211.	230.	246.	266.	277.	299.	308.	316.	317.
3820	152.	173.	197.	206.	207.	225.	235.	231.	239.	240.	250.
3821	149.	193.	218.	232.	250.	262.	266.	268.	279.	284.	296.
3822	155.	195.	221.	238.	248.	256.	259.	279.	287.	288.	287.
3823	149.	187.	210.	235.	257.	256.	274.	297.	295.	306.	296.
3824	153.	183.	210.	227.	234.	240.	224.	226.	242.	239.	249.
3825	144.	169.	187.	201.	211.	227.	234.	237.	246.	256.	256.
3826	157.	194.	218.	226.	240.	253.	260.	266.	273.	286.	289.
3827	148.	185.	215.	236.	243.	263.	268.	278.	286.	295.	300.
3828	159.	186.	202.	217.	227.	240.	248.	270.	273.	277.	276.
3829	141.	160.	172.	176.	208.	200.	200.	215.	218.	219.	210.
3830	155.	184.	212.	227.	237.	240.	247.	262.	264.	264.	276.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C33 (PAGE 2): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a
RAT #	DOSAGE GROUP 2								0.3 MG/KG/DAY		
3831	142.	180.	211.	222.	244.	261.	269.	260.	266.	274.	280.
3832	169.	210.	243.	258.	288.	307.	324.	327.	337.	344.	346.
3833	146.	174.	204.	217.	229.	239.	261.	272.	277.	275.	289.
3834	152.	182.	204.	211.	228.	252.	263.	270.	278.	286.	280.
3835	136.	162.	192.	221.	229.	220.	232.	245.	256.	272.	275.
3836	158.	190.	209.	214.	233.	253.	260.	266.	263.	272.	280.
3837	151.	176.	202.	229.	229.	244.	262.	271.	273.	294.	292.
3838	148.	172.	186.	201.	202.	223.	229.	239.	244.	242.	251.
3839	137.	172.	194.	206.	219.	225.	235.	241.	246.	251.	252.
3840	171.	216.	250.	273.	307.	334.	348.	361.	373.	385.	399.
3841	152.	189.	218.	238.	247.	250.	255.	268.	272.	273.	280.
3842	158.	196.	220.	238.	250.	271.	278.	292.	293.	299.	313.
3843	149.	176.	206.	224.	246.	261.	254.	272.	281.	276.	291.
3844	154.	180.	198.	213.	227.	245.	252.	263.	272.	284.	296.
3845	151.	187.	218.	227.	239.	255.	242.	261.	289.	289.	287.
3846	153.	180.	195.	218.	236.	245.	254.	274.	269.	280.	285.
3847	147.	179.	212.	229.	231.	255.	269.	280.	283.	292.	301.
3848	164.	202.	216.	232.	246.	259.	268.	270.	288.	296.	305.
3849	144.	170.	188.	206.	222.	232.	233.	244.	252.	256.	252.
3850	156.	201.	221.	234.	238.	246.	259.	268.	271.	269.	280.
3851	147.	178.	194.	222.	235.	249.	252.	277.	285.	288.	292.
3852	160.	210.	225.	250.	265.	268.	269.	284.	294.	298.	307.
3853	147.	192.	215.	223.	242.	245.	249.	259.	268.	280.	283.
3854	151.	184.	205.	212.	224.	234.	244.	250.	254.	253.	266.
3855	149.	181.	211.	224.	238.	259.	260.	285.	287.	286.	291.
3856	153.	187.	209.	232.	251.	258.	277.	287.	301.	315.	325.
3857	154.	182.	212.	214.	251.	270.	280.	296.	299.	323.	349.
3858	158.	199.	220.	245.	268.	277.	284.	306.	301.	323.	305.
3859	147.	182.	203.	222.	243.	250.	260.	273.	253.	283.	288.
3860	157.	188.	207.	207.	225.	243.	246.	247.	252.	265.	268.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C33 (PAGE 3): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a
RAT #	DOSAGE GROUP 3										3.0 MG/KG/DAY
3861	144.	177.	194.	203.	220.	232.	242.	255.	253.	268.	280.
3862	158.	191.	215.	246.	261.	272.	288.	291.	298.	310.	293.
3863	156.	188.	204.	222.	241.	254.	259.	275.	283.	285.	290.
3864	152.	174.	197.	211.	227.	232.	248.	249.	250.	255.	264.
3865	145.	187.	216.	239.	264.	283.	297.	300.	315.	328.	332.
3866	155.	174.	184.	193.	210.	223.	227.	240.	248.	254.	260.
3867	146.	176.	198.	230.	241.	258.	259.	278.	285.	292.	291.
3868	145.	173.	201.	220.	220.	241.	244.	247.	251.	262.	264.
3869	138.	170.	185.	209.	224.	241.	243.	260.	267.	273.	282.
3870	161.	195.	207.	226.	232.	244.	255.	271.	281.	290.	297.
3871	151.	187.	204.	218.	231.	248.	252.	258.	280.	289.	290.
3872	155.	194.	228.	261.	277.	294.	304.	319.	332.	337.	349.
3873	141.	175.	186.	210.	229.	235.	234.	247.	252.	255.	254.
3874	164.	200.	223.	259.	276.	287.	291.	311.	314.	316.	323.
3875	148.	177.	188.	205.	222.	230.	231.	245.	248.	250.	252.
3876	155.	181.	196.	204.	221.	218.	208.	233.	253.	250.	258.
3877	142.	176.	203.	223.	241.	258.	267.	270.	287.	292.	299.
3878	159.	192.	214.	237.	246.	265.	274.	288.	292.	308.	321.
3879	147.	186.	216.	236.	260.	271.	287.	304.	303.	309.	314.
3880	152.	183.	188.	232.	247.	256.	271.	282.	280.	290.	309.
3881	145.	177.	203.	215.	229.	232.	249.	255.	258.	273.	288.
3882	159.	192.	219.	219.	244.	253.	263.	269.	276.	276.	278.
3883	145.	164.	181.	196.	213.	225.	233.	244.	254.	253.	263.
3884	154.	180.	201.	209.	226.	219.	239.	230.	251.	257.	250.
3885	142.	180.	210.	219.	227.	236.	248.	257.	262.	264.	280.
3886	160.	198.	222.	247.	254.	261.	270.	282.	293.	295.	311.
3887	149.	189.	226.	256.	266.	272.	291.	289.	307.	308.	297.
3888	149.	173.	188.	208.	226.	230.	228.	246.	248.	263.	253.
3889	151.	178.	202.	220.	231.	236.	257.	265.	275.	275.	289.
3890	147.	177.	196.	214.	226.	232.	240.	251.	253.	257.	261.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C33 (PAGE 4): BODY WEIGHTS - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71a
RAT #	DOSAGE GROUP 4								30.0 MG/KG/DAY		
3891	138.	176.	197.	217.	218.	243.	250.	268.	270.	273.	271.
3892	168.	205.	229.	246.	256.	278.	289.	301.	304.	314.	328.
3893	146.	177.	190.	202.	214.	227.	235.	253.	262.	253.	266.
3894	155.	194.	203.	208.	216.	228.	235.	240.	244.	254.	258.
3895	143.	185.	213.	229.	234.	258.	264.	274.	271.	286.	291.
3896	170.	209.	227.	248.	266.	277.	290.	312.	310.	327.	340.
3897	142.	171.	192.	208.	221.	226.	241.	249.	252.	264.	272.
3898	153.	182.	203.	220.	217.	222.	231.	239.	244.	238.	244.
3899	141.	172.	198.	211.	220.	237.	252.	264.	277.	293.	300.
3900	160.	200.	223.	251.	251.	268.	270.	286.	277.	295.	301.
3901	144.	170.	190.	204.	220.	230.	231.	226.	234.	240.	251.
3902	150.	184.	216.	235.	245.	255.	258.	277.	291.	306.	290.
3903	134.	155.	163.	175.	190.	198.	194.	212.	219.	219.	222.
3904	156.	183.	195.	216.	233.	242.	247.	268.	273.	278.	280.
3905	146.	170.	190.	209.	224.	233.	237.	253.	252.	259.	259.
3906	161.	200.	230.	251.	260.	288.	305.	317.	312.	333.	339.
3907	144.	179.	217.	240.	261.	273.	290.	280.	306.	308.	321.
3908	156.	186.	208.	234.	240.	264.	269.	286.	295.	291.	312.
3909	143.	178.	203.	222.	242.	248.	262.	264.	282.	284.	294.
3910	155.	185.	204.	231.	250.	257.	262.	275.	286.	290.	302.
3911	144.	182.	206.	208.	238.	247.	242.	255.	280.	286.	290.
3912	146.	187.	205.	229.	244.	257.	261.	274.	285.	291.	296.
3913	152.	169.	200.	201.	250.	262.	265.	257.	271.	288.	288.
3914	156.	192.	224.	249.	269.	273.	292.	290.	320.	322.	340.
3915	99.	165.	190.	203.	217.	226.	242.	252.	255.	252.	262.
3916	162.	186.	201.	205.	222.	234.	239.	240.	261.	262.	266.
3917	148.	179.	210.	220.	237.	247.	261.	269.	280.	292.	301.
3918	155.	189.	214.	241.	252.	252.	260.	280.	286.	285.	300.
3919	149.	190.	211.	239.	252.	263.	273.	289.	296.	297.	305.
3920	152.	182.	200.	220.	235.	244.	246.	254.	258.	254.	254.

DAY = DAY OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C34 (PAGE 1): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25
RAT #	DOSAGE GROUP 1				0 (CARRIER) MG/KG/DAY
3801 P	279.	305.	334.	432.	
3802 P	332.	375.	401.	437.	
3803 P	288.	328.	358.	468.	
3804 P	322.	346.	358.	470.	
3805 P	275.	302.	333.	436.	
3806 P	334.	390.	426.	572.	
3807 P	350.	383.	409.	521.	
3808 P	277.	314.	340.	426.	
3809 P	297.	329.	357.	471.	
3810 P	286.	315.	351.	464.	
3811 P	282.	331.	362.	465.	
3812 P	289.	333.	370.	481.	
3813 P	322.	368.	394.	472.	
3814 P	313.	341.	374.	447.	
3815 P	284.	318.	366.	464.	
3816 P	305.	349.	384.	470.	
3817 NP	302.	344.	343.	344.	342.
3818 P	333.	368.	420.	524.	
3819 P	330.	363.	398.	484.	
3820 NP	239.	291.	286.	312.	329.
3821 P	290.	319.	359.	452.	
3822 P	281.	300.	338.	428.	
3823 P	328.	364.	389.	452.	
3824 P	250.	287.	323.	395.	
3825 P	255.	307.	324.	440.	
3826 P	280.	324.	366.	465.	
3827 P	295.	341.	371.	474.	
3828 P	276.	319.	366.	457.	
3829 P	219.	257.	282.	360.	
3830 P	272.	293.	325.	401.	

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C34 (PAGE 2): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25
RAT #	DOSAGE GROUP 2				0.3 MG/KG/DAY
3831 P	274.	307.	346.	420.	
3832 NP	MATING NOT CONFIRMED				
3833 P	282.	324.	361.	447.	
3834 P	288.	302.	360.	455.	
3835 NP	MATING NOT CONFIRMED				
3836 NP	272.	320.	340.	310.	306.
3837 P	288.	339.	369.	445.	
3838 P	247.	289.	319.	409.	
3839 NP	MATING NOT CONFIRMED				
3840 NP	392.	437.	447.	422.	420.
3841 NP	275.	312.	314.	308.	309.
3842 P	298.	319.	362.	456.	
3843 P	288.	331.	371.	480.	
3844 NP	293.	310.	325.	331.	337.
3845 P	316.	349.	382.	524.	
3846 P	296.	340.	376.	473.	
3847 P	298.	322.	348.	400.	
3848 P	297.	339.	374.	477.	
3849 P	246.	276.	310.	394.	
3850 P	281.	312.	350.	444.	
3851 P	293.	332.	369.	464.	
3852 P	306.	341.	382.	478.	
3853 NP	MATING NOT CONFIRMED				
3854 P	261.	275.	277.	366.	
3855 P	296.	352.	403.	497.	
3856 P	323.	357.	365.	435.	
3857 P	334.	371.	405.	509.	
3858 P	322.	362.	385.	495.	
3859 P	293.	314.	357.	449.	
3860 P	258.	295.	332.	413.	

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C34 (PAGE 3): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25
RAT #	DOSAGE GROUP 3				3.0 MG/KG/DAY
3861 P	278.	307.	346.	460.	
3862 P	314.	353.	389.	497.	
3863 P	284.	316.	360.	450.	
3864 P	261.	294.	332.	431.	
3865 P	337.	377.	415.	543.	
3866 P	264.	303.	329.	426.	
3867 P	299.	321.	358.	467.	
3868 P	259.	305.	331.	418.	
3869 P	279.	314.	343.	454.	
3870 NP	291.	342.	360.	348.	322.
3871 NP	MATING NOT CONFIRMED				
3872 P	350.	384.	410.	485.	
3873 P	266.	285.	330.	416.	
3874 NP	326.	351.	383.	353.	355.
3875 P	265.	294.	337.	443.	
3876 P	264.	293.	332.	437.	
3877 P	293.	340.	370.	457.	
3878 P	312.	353.	383.	462.	
3879 P	314.	349.	386.	484.	
3880 P	309.	342.	383.	483.	
3881 P	285.	323.	MORIBUND SACRIFICED ON DAY 9 OF GESTATION		
3882 P	276.	307.	328.	392.	
3883 P	260.	290.	322.	416.	
3884 P	279.	299.	325.	445.	
3885 P	274.	310.	355.	443.	
3886 NP	298.	323.	324.	326.	329.
3887 P	314.	348.	389.	488.	
3888 P	256.	292.	320.	432.	
3889 P	286.	336.	377.	466.	
3890 P	266.	299.	334.	388.	

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C34 (PAGE 4): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25
RAT #	DOSAGE GROUP 4				30.0 MG/KG/DAY
3891 P	285.	313.	352.	451.	
3892 P	324.	345.	367.	407.	
3893 P	265.	307.	330.	427.	
3894 P	252.	310.	342.	432.	
3895 P	288.	315.	353.	446.	
3896 NP	336.	368.	359.	359.	365.
3897 P	267.	290.	328.	438.	
3898 NP	252.	294.	307.	298.	281.
3899 P	296.	346.	388.	488.	
3900 P	292.	342.	380.	466.	
3901 P	260.	271.	329.	452.	
3902 P	294.	334.	354.	470.	
3903 NP	213.	250.	253.	253.	255.
3904 P	281.	311.	356.	450.	
3905 P	295.	313.	320.	357.	
3906 P	340.	383.	417.	518.	
3907 P	316.	352.	383.	472.	
3908 NP	315.	347.	332.	319.	325.
3909 NP	294.	321.	319.	315.	318.
3910 P	303.	324.	367.	455.	
3911 P	301.	329.	340.	473.	
3912 P	293.	338.	373.	492.	
3913 P	282.	332.	353.	457.	
3914 NP	337.	388.	416.	376.	374.
3915 P	NO CONFIRMED MATING DATE				
3916 P	268.	310.	355.	421.	
3917 P	291.	337.	370.	476.	
3918 P	293.	338.	376.	490.	
3919 P	304.	339.	384.	506.	
3920 P	262.	291.	331.	421.	

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C35 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAY	1	4	7	14	21
DAM #	DOSAGE GROUP 1				0 (CARRIER) MG/KG/DAY
3801	295.	302.	328.	320.	306.
3802	382.	383.	377.	376.	339.
3803	323.	343.	340.	332.	363.
3804	340.	366.	380.	376.	361.
3805	297.	315.	327.	309.	345.
3806	385.	370.	389.	430.	432.
3807	383.	392.	400.	373.	387.
3808	340.	322.	338.	369.	347.
3809	353.	343.	359.	311.	354.
3810	327.	328.	347.	330.	308.
3811	348.	327.	344.	31[illegible]	351.
3812	330.	313.	325.	35[illegible].	363.
3813	349.	365.	373.	34[illegible].	393.
3814	313.	380.	376.	378.	328.
3815	336.	361.	360.	375.	331.
3816	362.	348.	367.	314.	372.
3817	NOT PREGNANT				
3818	369.	404.	386.	355.	397.
3819	386.	379.	388.	396.	384.
3820	NOT PREGNANT				
3821	346.	354.	372.	346.	338.
3822	320.	317.	336.	340.	298.
3823	352.	364.	378.	388.	391.
3824	304.	304.	320.	328.	333.
3825	310.	302.	316.	334.	314.
3826	331.	326.	349.	341.	309.
3827	362.	354.	368.	374.	377.
3828	349.	325.	328.	365.	374.
3829	264.	272.	292.	257.	335.
3830	298.	289.	310.	331.	319.

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C35 (PAGE 2): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAY	1	4	7	14	21
DAM #	DOSAGE GROUP 2				0.3 MG/KG/DAY
3831	311.	325.	344.	338.	342.
3832	NOT PREGNANT				
3833	334.	347.	384.	318.	341.
3834	336.	346.	342.	360.	356.
3835	NOT PREGNANT				
3836	NOT PREGNANT				
3837	362.	353.	374.	394.	390.
3838	308.	318.	336.	313.	294.
3839	NOT PREGNANT				
3840	NOT PREGNANT				
3841	NOT PREGNANT				
3842	344.	341.	358.	313.	349.
3843	349.	357.	382.	345.	366.
3844	NOT PREGNANT				
3845	358.	382.	374.	360.	382.
3846	344.	370.	359.	348.	374.
3847	348.	335.	354.	351.	341.
3848	372.	348.	379.	418.	355.
3849	291.	311.	333.	348.	348.
3850	307.	342.	359.	358.	322.
3851	341.	340.	354.	351.	368.
3852	344.	372.	376.	393.	386.
3853	NOT PREGNANT				
3854	249.	290.	328.	344.	355.
3855	346.	388.	386.	320.	357.
3856	349.	369.	375.	387.	372.
3857	371.	366.	379.	421.	394.
3858	365.	331.	358.	393.	380.
3859	338.	338.	337.	343.	366.
3860	302.	329.	336.	346.	365.

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C35 (PAGE 3): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAY	1	4	7	14	21
DAM #	DOSAGE GROUP 3				3.0 MG/KG/DAY
3861	319.	327.	337.	357.	348.
3862	368.	374.	376.	387.	368.
3863	325.	353.	357.	358.	366.
3864	309.	322.	342.	291.	314.
3865	411.	385.	405.	365.	416.
3866	323.	333.	352.	367.	376.
3867	298.	310.	350.	363.	365.
3868	306.	319.	344.	369.	358.
3869	317.	348.	344.	354.	373.
3870	NOT PREGNANT				
3871	NOT PREGNANT				
3872	376.	382.	386.	406.	392.
3873	291.	309.	325.	344.	345.
3874	NOT PREGNANT				
3875	318.	321.	338.	366.	359.
3876	305.	319.	336.	341.	356.
3877	378.	356.	383.	345.	390.
3878	379.	377.	386.	378.	365.
3879	344.	353.	380.	346.	417.
3880	346.	367.	376.	340.	342.
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION				
3882	325.	318.	309.	308.	354.
3883	300.	304.	316.	331.	325.
3884	340.	361.	376.	360.	323.
3885	323.	329.	341.	362.	344.
3886	NOT PREGNANT				
3887	344.	332.	357.	369.	393.
3888	312.	317.	336.	354.	331.
3889	353.	351.	344.	297.	370.
3890	302.	320.	334.	350.	342.

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C35 (PAGE 4): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAM #	DAY 1	4	7	14	21
DOSAGE GROUP 4					30.0 MG/KG/DAY
3891	320.	329.	345.	367.	376.
3892	359.	347.	357.	373.	376.
3893	322.	317.	341.	336.	352.
3894	322.	326.	347.	362.	377.
3895	349.	334.	347.	378.	371.
3896	NOT PREGNANT				
3897	315.	305.	317.	337.	323.
3898	NOT PREGNANT				
3899	369.	381.	392.	413.	322.
3900	352.	359.	380.	376.	350.
3901	327.	335.	337.	309.	337.
3902	333.	329.	346.	344.	348.
3903	NOT PREGNANT				
3904	309.	323.	355.	358.	323.
3905	339.	314.	322.	336.	321.
3906	398.	388.	396.	393.	384.
3907	352.	364.	366.	322.	350.
3908	NOT PREGNANT				
3909	NOT PREGNANT				
3910	353.	336.	347.	366.	397.
3911	328.	362.	390.	355.	315.
3912	361.	357.	377.	341.	384.
3913	337.	333.	359.	280.	377.
3914	NOT PREGNANT				
3915	308.	289.	299.	313.	348.
3916	338.	333.	336.	316.	341.
3917	365.	341.	369.	361.	374.
3918	341.	338.	356.	337.	362.
3919	352.	368.	388.	411.	331.
3920	306.	318.	342.	313.	332.

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 1): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY						
3801	72.	73.	104.	72.	70.	96.	66.	79.	115.	57.	74.	92.	65.	65.
3802	77.	77.	100.	41.	72.	97.	68.	72.	109.	75.	79.	114.	68.	84.
3803	66.	76.	139.	64.	65.	132.	62.	90.	137.	93.	108.	150.	80.	111.
3804	61.	66.	89.	58.	a	82.	60.	57.	98.	61.	56.	88.	57.	61.
3805	115.	111.	a	98.	99.	150.	110.	131.	171.	103.	107.	170.	98.	137.
3806	57.	64.	103.	61.	70.	109.	87.	80.	122.	88.	76.	126.	81.	90.
3807	70.	68.	111.	65.	79.	101.	67.	87.	118.	83.	67.	98.	81.	63.
3808	62.	68.	107.	58.	93.	103.	75.	75.	89.	76.	52.	91.	55.	59.
3809	85.	75.	121.	65.	90.	117.	82.	73.	112.	71.	78.	112.	89.	71.
3810	61.	64.	79.	49.	46.	70.	43.	52.	72.	45.	56.	78.	54.	49.
3811	77.	70.	96.	39.	56.	71.	57.	57.	87.	54.	48.	82.	48.	52.
3812	79.	109.	146.	114.	107.	209.	125.	119.	185.	105.	103.	169.	112.	136.
3813	81.	104.	160.	109.	110.	161.	92.	128.	175.	125.	118.	192.	a	140.
3814	58.	63.	97.	65.	65.	99.	69.	67.	113.	67.	76.	100.	63.	72.
3815	61.	58.	88.	54.	61.	82.	59.	64.	90.	63.	58.	89.	49.	61.
3816	57.	70.	93.	62.	63.	87.	69.	66.	109.	56.	68.	83.	45.	76.
3817	52.	57.	79.	51.	53.	89.	56.	65.	93.	a	b	a	a	112.
3818	54.	72.	104.	71.	71.	121.	86.	80.	135.	72.	80.	118.	69.	82.
3819	61.	71.	98.	50.	67.	88.	65.	65.	100.	66.	72.	96.	54.	66.
3820	60.	72.	89.	59.	63.	87.	58.	60.	99.	51.	65.	93.	60.	68.
3821	76.	82.	115.	64.	72.	88.	63.	57.	91.	61.	49.	89.	53.	45.
3822	67.	78.	101.	65.	67.	100.	78.	66.	101.	56.	65.	101.	52.	68.
3823	57.	75.	104.	73.	66.	109.	86.	75.	124.	72.	94.	120.	77.	94.
3824	71.	62.	86.	49.	58.	88.	55.	71.	97.	67.	62.	80.	56.	48.
3825	47.	93.	a	65.	123.	117.	a	101.	116.	a	85.	98.	109.	137.
3826	83.	106.	a	116.	90.	111.	113.	b	162.	a	107.	161.	a	a
3827	61.	63.	95.	54.	67.	101.	74.	66.	116.	73.	77.	74.	68.	63.
3828	74.	78.	107.	61.	74.	96.	64.	65.	105.	53.	76.	93.	59.	47.
3829	56.	63.	99.	116.	71.	188.	75.	96.	178.	121.	a	204.	a	a
3830	66.	69.	112.	65.	69.	114.	69.	76.	101.	69.	74.	99.	71.	77.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 2): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY						
3801	106.	80.	58.	100.	65.	81.	130.	76.	87.	a	77.	75.	134.	87.
3802	106.	62.	80.	105.	77.	80.	108.	69.	70.	115.	66.	90.	114.	56.
3803	128.	66.	121.	136.	b	71.	143.	126.	b	a	101.	102.	a	81.
3804	91.	61.	53.	81.	69.	56.	86.	50.	51.	84.	49.	59.	80.	57.
3805	168.	115.	104.	138.	106.	137.	166.	110.	b	199.	128.	a	a	a
3806	120.	81.	89.	116.	103.	80.	120.	95.	74.	122.	82.	96.	121.	87.
3807	127.	61.	84.	111.	69.	84.	111.	77.	65.	91.	70.	70.	100.	59.
3808	82.	49.	56.	a	73.	59.	98.	80.	63.	97.	77.	80.	87.	52.
3809	112.	66.	86.	116.	83.	73.	125.	65.	94.	95.	82.	92.	127.	64.
3810	71.	52.	65.	74.	45.	60.	82.	53.	57.	75.	52.	51.	77.	45.
3811	76.	47.	53.	75.	50.	52.	80.	60.	51.	81.	50.	65.	82.	45.
3812	202.	b	127.	199.	137.	a	176.	b	124.	161.	134.	137.	184.	117.
3813	193.	129.	126.	138.	107.	133.	a	a	119.	171.	106.	102.	139.	104.
3814	105.	71.	67.	127.	81.	72.	103.	70.	69.	101.	60.	68.	92.	61.
3815	141.	125.	122.	169.	140.	a	176.	59.	70.	210.	a	a	a	114.
3816	87.	68.	52.	81.	67.	55.	98.	59.	64.	150.	55.	71.	92.	59.
3817	203.	a	a	a	a	a	a	a	a	a	a	a	a	81.
3818	119.	87.	66.	132.	96.	84.	145.	90.	74.	140.	96.	90.	161.	90.
3819	96.	56.	67.	93.	63.	63.	102.	54.	70.	90.	63.	74.	93.	49.
3820	95.	70.	52.	118.	62.	78.	109.	76.	64.	97.	60.	68.	119.	62.
3821	77.	45.	51.	72.	56.	46.	56.	62.	43.	80.	42.	53.	69.	40.
3822	88.	65.	58.	90.	61.	61.	101.	57.	48.	102.	52.	68.	88.	70.
3823	a	a	a	135.	a	132.	204.	105.	140.	196.	131.	a	a	131.
3824	80.	39.	41.	54.	33.	47.	62.	56.	51.	72.	49.	43.	68.	53.
3825	80.	68.	51.	74.	40.	43.	58.	44.	43.	81.	94.	61.	117.	120.
3826	a	b	110.	197.	133.	139.	a	b	b	196.	a	a	a	a
3827	90.	51.	65.	82.	62.	57.	93.	58.	a	75.	56.	55.	102.	50.
3828	92.	63.	60.	81.	73.	66.	107.	58.	59.	91.	52.	64.	92.	63.
3829	a	87.	a	152.	a	a	107.	87.	b	a	a	132.	172.	a
3830	100.	85.	68.	111.	68.	85.	118.	84.	74.	111.	88.	75.	116.	77.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 3): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	66- 68	68- 71a
RAT #	DOSAGE GROUP 1	0 (CARRIER) MG/KG/DAY
3801	71.	136.
3802	69.	99.
3803	94.	187.
3804	99.	139.
3805	c	207.
3806	88.	139.
3807	76.	109.
3808	84.	125.
3809	120.	116.
3810	45.	81.
3811	55.	88.
3812	117.	163.
3813	102.	170.
3814	66.	113.
3815	b	b
3816	52.	107.
3817	b	b
3818	73.	156.
3819	88.	150.
3820	78.	113.
3821	51.	77.
3822	56.	95.
3823	b	b
3824	47.	78.
3825	77.	96.
3826	c	b
3827	71.	84.
3828	60.	102.
3829	131.	b
3830	64.	104.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 4): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY						
3831	55.	59.	91.	47.	74.	88.	65.	68.	89.	71.	56.	99.	57.	66.
3832	83.	89.	119.	61.	111.	126.	125.	95.	134.	102.	a	a	a	a
3833	67.	67.	96.	58.	66.	109.	57.	81.	98.	57.	60.	83.	56.	67.
3834	68.	83.	106.	56.	80.	92.	65.	64.	95.	69.	50.	101.	66.	90.
3835	55.	55.	82.	52.	38.	93.	71.	113.	142.	111.	a	124.	74.	92.
3836	68.	74.	112.	65.	71.	106.	66.	68.	102.	65.	63.	92.	56.	56.
3837	64.	58.	90.	61.	54.	91.	58.	65.	96.	54.	65.	80.	73.	61.
3838	64.	71.	96.	60.	59.	85.	70.	63.	94.	53.	59.	63.	49.	67.
3839	59.	69.	95.	57.	76.	88.	68.	67.	100.	75.	57.	100.	62.	78.
3840	99.	88.	114.	61.	77.	102.	77.	75.	107.	78.	71.	113.	78.	80.
3841	11.	96.	94.	57.	75.	91.	58.	67.	92.	54.	64.	75.	46.	63.
3842	81.	70.	109.	59.	73.	107.	66.	74.	103.	70.	57.	99.	83.	65.
3843	49.	59.	83.	56.	57.	82.	62.	64.	87.	63.	59.	77.	53.	60.
3844	65.	83.	109.	86.	80.	178.	131.	124.	164.	110.	90.	123.	75.	93.
3845	63.	79.	108.	61.	80.	109.	82.	75.	107.	77.	78.	124.	67.	86.
3846	47.	54.	67.	47.	46.	73.	61.	60.	99.	66.	71.	91.	56.	79.
3847	64.	54.	81.	44.	59.	85.	48.	65.	84.	53.	57.	74.	57.	53.
3848	59.	71.	72.	39.	45.	57.	47.	44.	66.	46.	34.	63.	40.	48.
3849	72.	78.	110.	64.	66.	98.	66.	64.	111.	58.	66.	94.	57.	71.
3850	67.	81.	114.	66.	76.	119.	83.	88.	132.	71.	68.	117.	83.	96.
3851	56.	63.	93.	52.	60.	79.	69.	64.	107.	60.	65.	92.	54.	80.
3852	69.	80.	102.	55.	60.	97.	70.	60.	118.	63.	69.	104.	58.	68.
3853	56.	41.	57.	39.	65.	80.	56.	53.	88.	57.	46.	85.	44.	53.
3854	73.	65.	89.	58.	62.	95.	55.	63.	87.	58.	64.	93.	65.	60.
3855	72.	88.	98.	70.	74.	112.	67.	90.	122.	80.	67.	128.	7.	105.
3856	61.	66.	83.	47.	55.	76.	62.	62.	89.	37.	68.	86.	60.	61.
3857	a	a	a	a	a	a	a	b	199.	a	a	200.	a	a
3858	80.	103.	136.	86.	80.	128.	95.	89.	173.	97.	112.	148.	93.	116.
3859	52.	67.	99.	62.	72.	102.	72.	54.	94.	59.	71.	97.	57.	77.
3860	56.	58.	76.	37.	60.	75.	47.	45.	64.	57.	45.	77.	42.	49.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 5): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 2								0.3 MG/KG/DAY					
3831	85.	48.	64.	77.	56.	53.	61.	57.	48.	68.	58.	51.	76.	66.
3832	a	a	114.	a	a	132.	163.	98.	81.	197.	103.	124.	159.	111.
3833	84.	72.	61.	110.	60.	88.	106.	74.	83.	122.	63.	34.	127.	74.
3834	127.	132.	a	178.	a	127.	158.	71.	125.	a	137.	a	a	a
3835	195.	125.	91.	a	a	a	a	a	b	a	a	a	170.	a
3836	90.	60.	65.	97.	51.	68.	94.	53.	53.	81.	49.	47.	84.	46.
3837	97.	65.	58.	95.	57.	80.	92.	59.	59.	93.	63.	73.	101.	60.
3838	91.	70.	50.	93.	68.	67.	101.	52.	a	90.	57.	53.	85.	50.
3839	87.	49.	57.	85.	69.	58.	96.	61.	71.	91.	72.	46.	108.	54.
3840	95.	58.	74.	92.	71.	71.	99.	64.	65.	94.	52.	67.	93.	59.
3841	74.	57.	45.	95.	50.	116.	188.	a	a	165.	a	a	a	a
3842	117.	70.	78.	116.	77.	79.	108.	76.	69.	120.	74.	74.	118.	66.
3843	91.	53.	54.	89.	59.	71.	98.	59.	58.	87.	54.	66.	95.	63.
3844	109.	79.	60.	101.	95.	80.	112.	76.	67.	104.	97.	94.	127.	78.
3845	115.	68.	84.	18.	102.	79.	135.	84.	70.	139.	65.	81.	121.	75.
3846	105.	65.	72.	113.	63.	95.	117.	65.	65.	92.	54.	80.	106.	81.
3847	86.	46.	58.	79.	44.	65.	84.	54.	53.	75.	58.	49.	90.	48.
3848	59.	34.	43.	59.	44.	37.	63.	45.	34.	67.	37.	50.	63.	31.
3849	87.	58.	57.	83.	69.	65.	98.	56.	65.	77.	50.	60.	78.	50.
3850	124.	91.	70.	136.	85.	79.	136.	79.	96.	133.	84.	80.	145.	80.
3851	94.	71.	66.	100.	79.	65.	116.	67.	71.	100.	59.	77.	107.	67.
3852	96.	61.	46.	80.	62.	58.	117.	58.	58.	103.	60.	77.	120.	73.
3853	71.	43.	39.	69.	53.	50.	79.	53.	34.	33.	29.	37.	49.	37.
3854	93.	64.	57.	93.	64.	60.	81.	52.	59.	90.	59.	61.	91.	53.
3855	122.	69.	93.	105.	92.	80.	132.	76.	100.	134.	65.	83.	109.	103.
3856	88.	54.	70.	87.	70.	57.	85.	66.	49.	79.	56.	67.	87.	51.
3857	205.	129.	a	150.	a	a	172.	a	a	a	a	a	a	a
3858	158.	126.	84.	117.	92.	a	a	a	99.	a	a	a	a	a
3859	97.	58.	54.	90.	60.	122.	a	a	a	a	a	a	a	a
3860	74.	39.	55.	72.	48.	47.	71.	53.	41.	67.	46.	48.	77.	38.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 6): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	66- 68	68- 71a
RAT #	DOSAGE GROUP 2	0.3 MG/KG/DAY
3831	66.	73.
3832	108.	189.
3833	74.	134.
3834	125.	b
3835	b	b
3836	60.	74.
3837	65.	117.
3838	67.	92.
3839	76.	111.
3840	62.	98.
3841	134.	200.
3842	73.	131.
3843	64.	82.
3844	72.	134.
3845	76.	134.
3846	73.	110.
3847	56.	84.
3848	43.	59.
3849	48.	88.
3850	87.	131.
3851	66.	94.
3852	70.	114.
3853	55.	71.
3854	59.	95.
3855	74.	128.
3856	72.	92.
3857	b	203.
3858	b	b
3859	c	b
3860	55.	66.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 7): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY						
3861	60.	72.	111.	67.	67.	94.	73.	64.	105.	74.	74.	95.	73.	65.
3862	65.	83.	107.	72.	70.	120.	96.	74.	153.	80.	79.	102.	63.	89.
3863	51.	56.	74.	46.	48.	70.	51.	43.	75.	49.	48.	77.	46.	52.
3864	96.	92.	132.	89.	77.	133.	83.	93.	137.	85.	71.	130.	94.	78.
3865	71.	71.	106.	64.	76.	106.	69.	78.	102.	73.	64.	102.	72.	65.
3866	57.	67.	79.	48.	52.	74.	58.	47.	79.	55.	63.	83.	49.	61.
3867	63.	72.	99.	63.	a	104.	83.	65.	128.	78.	76.	111.	64.	78.
3868	64.	67.	105.	68.	60.	104.	91.	81.	126.	73.	65.	126.	103.	82.
3869	49.	59.	86.	60.	59.	87.	75.	60.	96.	67.	64.	101.	61.	90.
3870	72.	85.	123.	79.	73.	102.	81.	72.	109.	76.	86.	103.	74.	78.
3871	91.	84.	104.	59.	70.	102.	87.	83.	119.	84.	99.	135.	82.	107.
3872	59.	62.	94.	62.	57.	101.	64.	76.	95.	57.	71.	98.	62.	64.
3873	83.	109.	114.	70.	61.	89.	77.	62.	111.	74.	79.	110.	66.	90.
3874	79.	98.	129.	90.	83.	130.	110.	89.	159.	94.	92.	140.	73.	92.
3875	50.	54.	74.	49.	53.	63.	55.	54.	77.	70.	71.	79.	64.	69.
3876	55.	64.	93.	55.	80.	94.	74.	76.	103.	a	a	a	a	a
3877	62.	65.	96.	55.	69.	91.	66.	65.	102.	78.	56.	114.	64.	77.
3878	96.	71.	125.	67.	80.	110.	67.	90.	128.	80.	77.	100.	82.	56.
3879	68.	73.	106.	63.	69.	100.	69.	69.	112.	73.	88.	123.	69.	70.
3880	74.	79.	128.	81.	81.	99.	92.	85.	129.	87.	85.	114.	99.	94.
3881	54.	58.	85.	58.	55.	98.	61.	66.	87.	52.	58.	93.	63.	63.
3882	84.	69.	98.	50.	63.	99.	49.	73.	85.	69.	52.	109.	52.	66.
3883	57.	70.	99.	56.	65.	94.	69.	66.	107.	71.	73.	127.	67.	81.
3884	60.	67.	155.	132.	84.	a	a	a	179.	a	125.	a	a	a
3885	59.	59.	91.	60.	56.	94.	55.	66.	91.	57.	60.	82.	64.	59.
3886	83.	106.	146.	104.	95.	106.	104.	b	168.	90.	85.	103.	62.	131.
3887	67.	82.	128.	80.	70.	115.	72.	80.	111.	60.	78.	95.	66.	60.
3888	41.	55.	70.	47.	49.	76.	57.	50.	83.	52.	56.	78.	43.	52.
3889	69.	64.	96.	60.	54.	43.	53.	67.	93.	47.	3.	124.	62.	56.
3890	46.	55.	75.	48.	74.	80.	52.	46.	82.	47.	51.	78.	47.	54.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 8): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY						
3861	129.	67.	82.	98.	61.	80.	105.	63.	78.	84.	67.	62.	114.	56.
3862	113.	79.	70.	119.	a	a	a	a	a	a	a	a	a	a
3863	74.	49.	40.	69.	53.	58.	75.	45.	54.	66.	43.	50.	73.	49.
3864	148.	106.	92.	170.	125.	a	176.	118.	123.	156.	119.	117.	174.	125.
3865	95.	59.	76.	94.	65.	1.	146.	53.	1.	a	a	104.	a	a
3866	100.	71.	63.	107.	69.	71.	115.	61.	68.	94.	55.	70.	110.	68.
3867	106.	87.	65.	a	77.	71.	112.	55.	71.	122.	65.	83.	133.	83.
3868	119.	71.	77.	110.	66.	109.	119.	92.	95.	109.	88.	106.	134.	73.
3869	106.	78.	65.	108.	79.	63.	121.	63.	82.	95.	62.	87.	121.	77.
3870	108.	71.	72.	110.	70.	73.	119.	85.	93.	117.	88.	90.	137.	88.
3871	124.	71.	92.	130.	93.	117.	131.	103.	123.	172.	90.	80.	a	98.
3872	88.	61.	59.	93.	64.	64.	101.	63.	65.	95.	65.	61.	107.	62.
3873	99.	67.	58.	118.	76.	61.	118.	51.	71.	98.	53.	100.	80.	75.
3874	115.	92.	69.	112.	89.	80.	136.	79.	89.	105.	91.	98.	125.	93.
3875	100.	61.	59.	82.	67.	73.	93.	47.	66.	63.	54.	68.	82.	57.
3876	a	a	a	a	a	a	a	a	a	a	a	a	a	a
3877	101.	62.	76.	96	72.	70.	107.	77.	64.	118.	57.	80.	113.	61.
3878	113.	66.	72.	105.	66.	92.	99.	62.	65.	84.	79.	66.	101.	57.
3879	119.	75.	81.	106.	97.	91.	165.	104.	93.	124.	73.	63.	147.	78.
3880	138.	97.	86.	143.	85.	111.	149.	92.	110.	81.	91.	92.	143.	96.
3881	90.	68.	60.	94.	62.	72.	97.	77.	69.	90.	75.	63.	112.	67.
3882	88.	75.	53.	73.	47.	64.	85.	57.	38.	104.	40.	66.	76.	60.
3883	115.	78.	66.	47.	74.	77.	127.	66.	69.	113.	72.	87.	125.	81.
3884	a	a	134.	150.	a	a	a	a	a	a	a	a	a	a
3885	88.	55.	51.	94.	55.	65.	89.	46.	58.	90.	61.	57.	90.	56.
3886	154.	119.	62.	122.	a	a	145.	87.	80.	79.	55.	86.	191.	b
3887	89.	66.	55.	104.	56.	71.	84.	65.	61.	98.	60.	74.	125.	103.
3888	71.	48.	40.	44.	49.	49.	120.	a	132.	a	a	a	a	a
3889	91.	61.	49.	103.	55.	58.	83.	50.	53.	92.	69.	59.	92.	64.
3890	76.	49.	40.	74.	47.	45.	81.	25.	50.	64.	42.	49.	69.	45.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Value could not be calculated.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 9): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	66- 68	68- 71a
RAT #	DOSAGE GROUP 3	3.0 MG/KG/DAY
3861	79.	b
3862	86.	b
3863	49.	70.
3864	87.	164.
3865	b	b
3866	64.	118.
3867	85.	131.
3868	82.	131.
3869	85.	115.
3870	92.	144.
3871	81.	173.
3872	76.	115.
3873	68.	115.
3874	79.	133.
3875	65.	78.
3876	b	b
3877	86.	110.
3878	72.	b
3879	88.	167.
3880	102.	152.
3881	74.	b
3882	50.	68.
3883	100.	133.
3884	b	b
3885	57.	99.
3886	c	118.
3887	b	b
3888	c	b
3889	56.	100.
3890	43.	71.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 10): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 3	3- 5	5- 8	8- 10	10- 12	12- 15	15- 17	17- 19	19- 22	22- 24	24- 26	26- 29	29- 31	31- 33
RAT #	DOSAGE GROUP 4								30.0 MG/KG/DAY					
3891	56.	63.	92.	63.	66.	93.	69.	61.	112.	65.	64.	92.	57.	76.
3892	94.	94.	150.	95.	95.	156.	108.	100.	137.	95.	74.	122.	87.	99.
3893	90.	94.	158.	95.	93.	150.	91.	96.	144.	83.	85.	117.	84.	88.
3894	73.	92.	111.	55.	79.	97.	65.	69.	83.	59.	54.	96.	66.	72.
3895	58.	55.	81.	44.	54.	80.	50.	66.	82.	57.	51.	82.	60.	52.
3896	86.	94.	105.	62.	57.	85.	59.	67.	93.	63.	73.	80.	64.	59.
3897	54.	58.	89.	45.	59.	78.	63.	60.	93.	64.	59.	87.	52.	54.
3898	61.	60.	78.	53.	60.	105.	72.	100.	106.	58.	a	a	a	133.
3899	42.	47.	65.	45.	39.	69.	43.	49.	68.	50.	37.	65.	40.	45.
3900	58.	75.	103.	71.	64.	132.	93.	a	142.	a	a	a	a	a
3901	57.	71.	88.	60.	59.	103.	78.	78.	113.	71.	65.	100.	63.	53.
3902	66.	61.	93.	a	53.	117.	56.	80.	104.	65.	75.	164.	112.	51.
3903	47.	38.	73.	36.	46.	62.	67.	45.	71.	66.	95.	110.	93.	78.
3904	56.	64.	82.	57.	89.	80.	64.	53.	93.	57.	52.	85.	54.	61.
3905	48.	68.	87.	58.	52.	85.	63.	53.	92.	49.	49.	87.	53.	70.
3906	71.	64.	95.	61.	58.	98.	58.	85.	107.	71.	80.	96.	83.	64.
3907	63.	55.	157.	a	113.	100.	55.	a	170.	a	51.	125.	129.	a
3908	58.	47.	94.	49.	52.	75.	64.	46.	104.	49.	64.	82.	66.	56.
3909	64.	64.	92.	60.	67.	109.	77.	87.	104.	81.	61.	118.	72.	84.
3910	64.	82.	120.	71.	69.	137.	128.	77.	150.	84.	110.	142.	76.	130.
3911	61.	71.	98.	68.	59.	88.	104.	123.	a	a	134.	a	a	a
3912	44.	60.	82.	51.	56.	78.	57.	44.	89.	52.	57.	76.	45.	55.
3913	a	a	a	144.	a	a	a	a	195.	a	a	a	a	a
3914	56.	71.	97.	60.	54.	103.	59.	70.	108.	62.	96.	a	a	a
3915	129.	a	a	126.	136.	174.	115.	131.	182.	136.	a	101.	a	99.
3916	68.	73.	89.	41.	66.	86.	56.	56.	95.	73.	57.	105.	55.	85.
3917	69.	63.	96.	60.	60.	104.	58.	68.	101.	60.	77.	88.	63.	59.
3918	53.	62.	89.	62.	67.	94.	66.	62.	131.	80.	83.	101.	51.	73.
3919	51.	62.	80.	52.	50.	84.	56.	57.	93.	51.	61.	82.	44.	51.
3920	59.	69.	109.	58.	61.	87.	70.	59.	102.	64.	87.	102.	53.	75.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 11): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	33- 36	36- 38	38- 40	40- 43	43- 45	45- 47	47- 50	50- 52	52- 54	54- 57	57- 59	59- 61	61- 64	64- 66
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY						
3891	98.	67.	60.	101.	73.	70.	a	64.	62.	91.	55.	70.	90.	61.
3892	152.	79.	77.	142.	82.	a	207.	a	123.	178.	124.	a	161.	a
3893	139.	92.	56.	159.	90.	99.	146.	84.	89.	129.	77.	47.	132.	87.
3894	103.	1.	96.	95.	73.	71.	111.	77.	64.	99.	71.	65.	128.	65.
3895	93.	51.	63.	81.	47.	63.	85.	67.	50.	72.	52.	48.	86.	48.
3896	90.	52.	64.	97.	72.	63.	98.	46.	75.	81.	63.	68.	103.	65.
3897	102.	57.	65.	97.	51.	71.	93.	58.	54.	90.	77.	61.	98.	53.
3898	a	a	102.	b	118.	a	184.	a	114.	157.	a	a	a	a
3899	61.	47.	32.	61.	44.	41.	81.	40.	43.	65.	39.	46.	73.	44.
3900	a	a	a	a	b	a	a	a	a	a	121.	a	141.	97.
3901	185.	96.	a	a	a	a	a	a	a	a	a	a	a	a
3902	101.	82.	51.	83.	51.	87.	111.	130.	122.	204.	a	a	a	126.
3903	135.	92.	135.	112.	96.	98.	106.	70.	92.	73.	49.	137.	129.	125.
3904	85.	57.	51.	75.	63.	50.	90.	52.	57.	76.	45.	57.	79.	59.
3905	78.	61.	25.	84.	67.	55.	106.	55.	62.	83.	55.	67.	97.	74.
3906	122.	66.	71.	106.	63.	80.	104.	66.	58.	92.	86.	60.	103.	50.
3907	a	a	a	181.	77.	a	a	a	131.	193.	a	136.	139.	a
3908	91.	57.	60.	94.	61.	68.	97.	69.	56.	101.	46.	69.	81.	53.
3909	113.	80.	46.	106.	79.	87.	104.	86.	80.	105.	77.	91.	120.	97.
3910	161.	a	122.	156.	b	108.	194.	a	a	142.	70.	a	139.	90.
3911	a	a	a	a	a	a	a	a	a	a	a	a	a	a
3912	77.	66.	54.	69.	56.	50.	82.	49.	53.	75.	60.	36.	98.	41.
3913	a	a	a	a	a	a	a	a	a	a	a	a	a	a
3914	a	98.	90.	170.	a	a	a	a	137.	157.	119.	141.	a	a
3915	151.	a	140.	187.	a	116.	125.	99.	a	a	a	a	a	a
3916	139.	69.	70.	102.	76.	106.	120.	91.	85.	130.	74.	86.	105.	75.
3917	89.	56.	a	84.	71.	62.	108.	80.	49.	100.	60.	73.	107.	64.
3918	95.	62.	65.	95.	60.	63.	97.	48.	49.	71.	48.	60.	77.	58.
3919	76.	53.	49.	79.	52.	47.	87.	61.	93.	75.	45.	62.	79.	78.
3920	92.	80.	45.	83.	64.	63.	103.	56.	65.	92.	46.	79.	85.	62.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C36 (PAGE 12): WATER CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	66- 68	68- 71a
RAT #	DOSAGE GROUP 4	30.0 MG/KG/DAY
3891	55.	93.
3892	b	b
3893	72.	148.
3894	63.	131.
3895	52.	87.
3896	66.	124.
3897	72.	112.
3898	b	b
3899	41.	74.
3900	124.	179.
3901	b	b
3902	b	b
3903	60.	110.
3904	35.	79.
3905	63.	101.
3906	83.	96.
3907	95.	156.
3908	34.	115.
3909	b	110.
3910	75.	129.
3911	b	b
3912	53.	92.
3913	b	b
3914	c	171.
3915	b	b
3916	73.	139.
3917	75.	112.
3918	47.	80.
3919	56.	116.
3920	66.	94.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C37 (PAGE 1): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS	0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #		DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY				
3801	P	149.	131.	123.	119.	210.	115.	144.	125.	114.	41.		
3802	P	134.	86.	96.	121.	148.	136.	123.	138.	81.	32.		
3803	P	a	a	200.	77.	151.	115.	109.	134.	183.	b		
3804	P	132.	118.	113.	41.	100.	110.	82.	93.	108.	65.		
3805	P	a	140.	120.	a	a	154.	a	163.	a	38.		
3806	P	177.	106.	112.	84.	156.	103.	109.	127.	108.	55.		
3807	P	106.	86.	81.	82.	132.	86.	104.	119.	110.	44.		
3808	P	133.	98.	85.	87.	177.	113.	147.	138.	108.	44.		
3809	P	134.	124.	116.	142.	195.	114.	146.	130.	78.	43.		
3810	P	100.	70.	89.	88.	134.	105.	105.	111.	102.	35.		
3811	P	101.	94.	105.	91.	146.	103.	96.	123.	85.	36.		
3812	P	a	a	a	a	200.	a	111.	158.	115.	63.		
3813	P	162.	a	138.	97.	199.	a	177.	a	a	81.		
3814	P	119.	110.	92.	120.	149.	120.	107.	118.	90.	41.		
3815	P	a	139.	113.	111.	177.	125.	137.	127.	97.	47.		
3816	P	151.	a	a	a	a	a	a	a	106.	51.		
3817	NP	196.	a	a	a	a	a	a	163.	93.	a	39.	43.
3818	P	174.	a	a	140.	200.	a	86.	115.	106.	57.		
3819	P	a	107.	106.	81.	165.	121.	116.	112.	74.	31.		
3820	NP	153.	140.	120.	121.	a	100.	75.	107.	a	35.	63.	56.
3821	P	90.	74.	79.	78.	132.	92.	87.	110.	64.	37.		
3822	P	105.	94.	129.	109.	168.	a	112.	110.	87.	37.		
3823	P	a	144.	a	a	a	a	111.	a	163.	48.		
3824	P	101.	91.	83.	87.	138.	101.	101.	109.	88.	33.		
3825	P	204.	a	b	a	a	a	a	a	107.	64.		
3826	P	99.	a	a	a	150.	123.	a	148.	94.	60.		
3827	P	114.	94.	99.	86.	164.	94.	96.	109.	78.	45.		
3828	P	158.	96.	104.	a	a	a	174.	174.	133.	57.		
3829	P	124.	96.	98.	135.	198.	113.	113.	104.	117.	43.		
3830	P	92.	62.	77.	93.	139.	104.	124.	100.	90.	33.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C37 (PAGE 2): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY					
3831 P	72.	96.	83.	82.	122.	83.	97.	108.	102.	54.		
3832 NP	MATING NOT CONFIRMED											
3833 P	135.	106.	103.	92.	147.	103.	114.	112.	112.	35.		
3834 P	a	a	a	a	a	a	b	149.	79.	83.		
3835 NP	MATING NOT CONFIRMED											
3836 NP	99.	76.	76.	82.	105.	66.	48.	45.	47.	25.	56.	49.
3837 P	122.	105.	102.	102.	152.	111.	115.	140.	115.	38.		
3838 P	112.	82.	88.	105.	155.	96.	105.	107.	86.	31.		
3839 NP	MATING NOT CONFIRMED											
3840 NP	100.	82.	81.	84.	123.	71.	58.	68.	39.	20.	45.	39.
3841 NP	79.	a	a	a	a	157.	a	190.	110.	19.	53.	50.
3842 P	115.	92.	93.	98.	161.	113.	126.	117.	104.	37.		
3843 P	100.	81.	83.	81.	132.	82.	87.	87.	88.	37.		
3844 NP	94.	86.	84.	111.	150.	108.	98.	73.	79.	28.	70.	73.
3845 P	142.	104.	126.	67.	147.	99.	119.	129.	129.	133.		
3846 P	140.	97.	91.	96.	147.	115.	109.	103.	85.	42.		
3847 P	90.	75.	72.	71.	118.	82.	89.	51.	79.	35.		
3848 P	86.	60.	66.	57.	112.	78.	64.	84.	58.	79.		
3849 P	115.	95.	81.	94.	176.	a	112.	106.	88.	34.		
3850 P	92.	110.	99.	a	a	a	a	a	131.	32.		
3851 P	125.	98.	93.	113.	162.	127.	121.	110.	97.	40.		
3852 P	121.	91.	93.	122.	187.	127.	194.	163.	90.	39.		
3853 NP	MATING NOT CONFIRMED											
3854 P	106.	30.	50.	75.	73.	26.	59.	58.	57.	15.		
3855 P	a	a	a	157.	a	a	172.	129.	104.	59.		
3856 P	132.	90.	85.	63.	a	124.	90.	109.	66.	34.		
3857 P	a	a	a	a	a	a	a	a	95.	48.		
3858 P	a	a	a	b	208.	a	a	136.	101.	52.		
3859 P	a	a	132.	149.	164.	a	107.	115.	105.	38.		
3860 P	113.	74.	73.	82.	a	b	98.	108.	64.	38.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C37 (PAGE 3): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS	0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY					
3861	P	127.	82.	97.	119.	166.	114.	120.	112.	117.	46.		
3862	P	a	a	a	b	a	a	a	a	138.	79.		
3863	P	98.	79.	81.	102.	126.	88.	73.	84.	74.	40.		
3864	P	166.	138.	a	134.	208.	b	a	143.	152.	40.		
3865	P	a	a	a	a	a	a	a	183.	108.	74.		
3866	P	155.	128.	123.	122.	a	a	a	a	122.	73.		
3867	P	156.	116.	120.	114.	148.	117.	112.	109.	107.	44.		
3868	P	112.	117.	129.	116.	187.	118.	a	132.	127.	48.		
3869	P	130.	91.	92.	69.	126.	86.	95.	85.	77.	37.		
3870	NP	131.	129.	116.	119.	164.	112.	122.	73.	99.	30.	72.	50.
3871	NP	MATING NOT CONFIRMED											
3872	P	107.	71.	75.	66.	116.	83.	85.	85.	80.	23.		
3873	P	151.	68.	96.	99.	145.	a	107.	109.	80.	41.		
3874	NP	169.	107.	123.	138.	183.	123.	114.	91.	50.	23.	72.	59.
3875	P	103.	77.	70.	80.	133.	91.	100.	91.	81.	49.		
3876	P	a	a	a	a	a	a	a	a	94.	53.		
3877	P	149.	125.	120.	136.	a	a	152.	160.	115.	56.		
3878	P	129.	97.	90.	95.	151.	106.	106.	62.	93.	46.		
3879	P	179.	a	a	118.	181.	a	123.	131.	96.	55.		
3880	P	152.	117.	112.	138.	194.	145.	a	172.	142.	46.		
3881	P	101.	92.	138.	MORIBUND SACRIFICED ON DAY 9 OF GESTATION								
3882	P	102.	a	a	a	a	a	a	192.	a	54.		
3883	P	131.	77.	94.	93.	168.	135.	112.	100.	77.	39.		
3884	P	a	a	a	a	a	a	a	130.	99.	70.		
3885	P	88.	70.	80.	76.	128.	95.	106.	113.	97.	41.		
3886	NP	114.	97.	91.	103.	190.	112.	132.	60.	134.	24.	48.	49.
3887	P	a	a	a	b	a	a	a	a	133.	a		
3888	P	202.	a	a	a	a	a	180.	122.	69.	52.		
3889	P	112.	88.	82.	91.	144.	103.	114.	120.	96.	35.		
3890	P	79.	56.	54.	62.	92.	72.	63.	67.	93.	44.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C37 (PAGE 4): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS	0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #		DOSAGE GROUP 4							30.0 MG/KG/DAY				
3891	P	119.	87.	82.	92.	139.	104.	109.	96.	87.	43.		
3892	P	a	a	a	a	a	a	a	a	190.	45.		
3893	P	149.	101.	116.	120.	167.	139.	a	134.	148.	45.		
3894	P	118.	123.	132.	119.	207.	136.	119.	112.	129.	44.		
3895	P	87.	79.	70.	85.	121.	102.	108.	114.	90.	32.		
3896	NP	131.	88.	99.	80.	119.	57.	67.	26.	72.	29.	60.	64.
3897	P	106.	90.	91.	86.	128.	86.	97.	92.	101.	37.		
3898	NP	a	a	a	a	a	a	a	53.	57.	28.	66.	63.
3899	P	91.	63.	65.	62.	103.	75.	83.	83.	80.	38.		
3900	P	161.	117.	109.	105.	183.	a	a	110.	88.	46.		
3901	P	a	a	a	a	233.	a	a	142.	135.	42.		
3902	P	a	a	a	a	a	a	144.	149.	97.	53.		
3903	NP	171.	89.	124.	90.	228.	127.	143.	59.	68.	21.	34.	43.
3904	P	131.	a	a	b	a	a	a	a	107.	41.		
3905	P	129.	83.	108.	65.	123.	94.	93.	94.	105.	63.		
3906	P	108.	98.	111.	108.	174.	124.	140.	a	113.	55.		
3907	P	188.	98.	107.	a	205.	b	124.	132.	144.	40.		
3908	NP	122.	89.	90.	45.	119.	44.	52.	45.	55.	23.	60.	54.
3909	NP	a	83.	a	117.	156.	a	104.	135.	46.	26.	51.	66.
3910	P	a	a	a	b	a	a	a	a	140.	146.		
3911	P	a	a	a	a	a	a	a	167.	130.	62.		
3912	P	121.	90.	91.	76.	128.	119.	90.	125.	83.	46.		
3913	P	a	a	a	a	a	a	a	a	102.	42.		
3914	NP	120.	b	a	a	a	a	a	185.	138.	20.	54.	51.
3915	P	NO CONFIRMED MATING DATE											
3916	P	130.	79.	78.	101.	a	a	157.	108.	116.	a		
3917	P	120.	107.	116.	109.	159.	120.	104.	119.	95.	49.		
3918	P	69.	71.	86.	87.	158.	106.	77.	116.	92.	49.		
3919	P	100.	128.	128.	b	152.	82.	127.	112.	86.	45.		
3920	P	119.	94.	99.	89.	163.	112.	98.	110.	102.	51.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C38 (PAGE 1): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1 - 3	3 - 4	4 - 6	6 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
DAM #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY	
3801	93.	69.	157.	76.	169.	97.	131.	227.
3802	62.	32.	63.	49.	90.	39.	95.	30.
3803	123.	74.	141.	100.	b	c	b	196.
3804	103.	66.	131.	82.	175.	c	b	b
3805	95.	59.	149.	74.	162.	96.	154.	221.
3806	80.	62.	153.	86.	197.	124.	231.	231.
3807	99.	58.	138.	77.	169.	104.	166.	208.
3808	48.	54.	122.	74.	152.	86.	196.	205.
3809	80.	58.	134.	86.	167.	85.	185.	213.
3810	87.	55.	134.	69.	161.	84.	130.	155.
3811	49.	52.	109.	57.	124.	82.	b	228.
3812	82.	63.	154.	81.	190.	106.	163.	197.
3813	100.	81.	158.	88.	194.	109.	218.	b
3814	139.	72.	160.	106.	212.	92.	207.	100.
3815	125.	85.	147.	84.	174.	89.	200.	68.
3816	b	81.	234.	103.	b	240.	221.	201.
3817	NOT PREGNANT							
3818	118.	69.	139.	83.	175.	95.	200.	187.
3819	72.	56.	120.	71.	181.	88.	180.	207.
3820	NOT PREGNANT							
3821	64.	54.	130.	73.	149.	76.	134.	187.
3822	103.	68.	140.	94.	193.	107.	193.	70.
3823	101.	80.	150.	144.	178.	b	b	b
3824	71.	54.	133.	65.	154.	78.	235.	200.
3825	143.	c	b	126.	97.	160.		205.
3826	111.	63.	131.	90.	100.	228.	208.	239.
3827	73.	45.	116.	67.	136.	81.	174.	194.
3828	39.	36.	63.	73.	130.	73.	153.	214.
3829	103.	64.	163.	76.	178.	82.	b	b
3830	71.	32.	86.	51.	121.	68.	146.	157.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C38 (PAGE 2): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

	DAYS 1 - 3	3 - 4	4 - 6	6 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
DAM #	DOSAGE GROUP 2							0.3 MG/KG/DAY
3831	99.	74.	176.	b	166.	120.	230.	216.
3832	NOT PREGNANT							
3833	72.	72.	156.	90.	210.	97.	159.	b
3834	b	b	b	232.	215.	102.	176.	219.
3835	NOT PREGNANT							
3836	NOT PREGNANT							
3837	78.	49.	131.	66.	163.	92.	167.	b
3838	103.	66.	174.	86.	179.	98.	134.	b
3839	NOT PREGNANT							
3840	NOT PREGNANT							
3841	NOT PREGNANT							
3842	64.	43.	126.	72.	159.	102.	219.	232.
3843	77.	58.	131.	88.	181.	92.	b	232.
3844	NOT PREGNANT							
3845	139.	76.	135.	90.	182.	c	b	181.
3846	97.	65.	142.	87.	175.	96.	205.	218.
3847	44.	38.	93.	50.	93.	54.	118.	123.
3848	60.	48.	121.	77.	171.	82.	186.	220.
3849	90.	67.	149.	85.	148.	94.	162.	197.
3850	119.	73.	156.	80.	175.	90.	207.	200.
3851	88.	58.	162.	86.	218.	121.	217.	209.
3852	91.	61.	134.	81.	149.	101.	197.	220.
3853	NOT PREGNANT							
3854	59.	48.	103.	56.	127.	67.	158.	189.
3855	147.	96.	218.	75.	206.	171.	215.	214.
3856	94.	71.	139.	88.	156.	85.	198.	209.
3857	152.	93.	185.	95.	206.	142.	202.	225.
3858	41.	25.	127.	64.	143.	96.	175.	209.
3859	77.	56.	174.	61.	169.	93.	228.	226.
3860	107.	73.	136.	89.	164.	94.	190.	191.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C38 (PAGE 3): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

	DAYS 1 - 3	3 - 4	4 - 6	6 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
DAM #	DOSAGE GROUP 3							3.0 MG/KG/DAY
3861	88.	74.	181.	77.	162.	90.	165.	228.
3862	b	c	172.	198.	238.	117.	234.	88.
3863	91.	b	121.	88.	158.	83.	183.	214.
3864	91.	91.	200.	c	233.	118.	227.	212.
3865	111.	89.	b	124.	206.	153.	b	241.
3866	189.	83.	55.	108.	b	125.	219.	106.
3867	111.	56.	165.	116.	b	86.	250.	101.
3868	73.	43.	107.	69.	125.	84.	171.	170.
3869	104.	79.	131.	73.	169.	112.	208.	234.
3870	NOT PREGNANT							
3871	NOT PREGNANT							
3872	65.	53.	119.	63.	163.	77.	143.	b
3873	111.	78.	157.	87.	181.	96.	176.	217.
3874	NOT PREGNANT							
3875	72.	48.	102.	65.	133.	82.	160.	179.
3876	b	c	226.	134.	b	119.	233.	225.
3877	78.	73.	170.	100.	206.	152.	194.	228.
3878	59.	53.	104.	63.	131.	82.	197.	197.
3879	106.	61.	145.	97.	210.	134.	223.	237.
3880	104.	69.	182.	c	222.	124.	207.	223.
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION							
3882	76.	94.	143.	c	168.	80.	217.	b
3883	96.	56.	132.	76.	163.	104.	188.	204.
3884	128.	100.	207.	108.	b	130.	214.	95.
3885	82.	54.	143.	83.	173.	88.	139.	231.
3886	NOT PREGNANT							
3887	b	b	240.	105.	b	119.	230.	219.
3888	77.	69.	133.	68.	151.	77.	141.	217.
3889	66.	54.	117.	72.	146.	79.	206.	233.
3890	76.	46.	106.	59.	129.	65.	135.	50.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C38 (PAGE 4): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAM #	DOSAGE GROUP 4							30.0 MG/KG/DAY
	DAYS 1 - 3	3 - 4	4 - 6	6 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
3891	80.	62.	138.	85.	185.	111.	217.	222.
3892	52.	38.	78.	41.	81.	45.	88.	105.
3893	74.	66.	160.	97.	225.	89.	204.	232.
3894	69.	57.	145.	95.	183.	93.	157.	236.
3895	47.	45.	112.	64.	144.	73.	175.	183.
3896	NOT PREGNANT							
3897	62.	52.	126.	62.	107.	89.	185.	212.
3898	NOT PREGNANT							
3899	80.	50.	161.	94.	160.	101.	204.	186.
3900	86.	52.	163.	87.	b	103.	207.	232.
3901	82.	79.	164.	95.	203.	108.	220.	229.
3902	98.	76.	192.	135.	191.	93.	153.	220.
3903	NOT PREGNANT							
3904	97.	51.	103.	91.	171.	99.	205.	102.
3905	42.	38.	86.	54.	87.	52.	90.	97.
3906	55.	54.	147.	74.	159.	103.	178.	231.
3907	84.	56.	138.	88.	174.	b	b	209.
3908	NOT PREGNANT							
3909	NOT PREGNANT							
3910	61.	49.	b	219.	193.	92.	200.	206.
3911	133.	97.	201.	119.	241.	118.	217.	79.
3912	98.	63.	168.	110.	206.	132.	239.	220.
3913	97.	93.	b	b	b	215.	217.	232.
3914	NOT PREGNANT							
3915	127.	73.	184.	c	217.	95.	200.	223.
3916	104.	85.	146.	91.	193.	121.	226.	211.
3917	75.	68.	166.	93.	223.	109.	222.	224.
3918	80.	69.	152.	79.	184.	97.	216.	232.
3919	113.	57.	149.	82.	188.	102.	201.	92.
3920	110.	76.	176.	106.	188.	105.	225.	222.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C39 (PAGE 1): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY		
3801	145.	145.	154.	154.	145.	b	134.	b	132.	150.
3802	163.	132.	137.	155.	148.	145.	140.	135.	139.	123.
3803	146.	148.	149.	147.	140.	136.	138.	133.	b	131.
3804	144.	140.	144.	146.	138.	131.	138.	120.	120.	128.
3805	132.	124.	128.	137.	135.	129.	129.	130.	136.	136.
3806	144.	146.	149.	154.	157.	149.	153.	147.	140.	140.
3807	146.	154.	171.	164.	168.	163.	169.	157.	148.	148.
3808	141.	144.	137.	140.	138.	133.	147.	142.	144.	138.
3809	143.	153.	150.	147.	149.	150.	149.	132.	143.	137.
3810	141.	133.	130.	131.	145.	149.	b	135.	140.	140.
3811	160.	133.	147.	144.	139.	137.	137.	138.	137.	131.
3812	b	176.	b	b	172.	154.	149.	150.	136.	125.
3813	131.	142.	142.	159.	153.	147.	148.	138.	127.	123.
3814	139.	137.	149.	143.	136.	137.	138.	140.	135.	134.
3815	136.	131.	147.	168.	150.	153.	139.	133.	151.	147.
3816	144.	142.	148.	150.	134.	141.	146.	143.	142.	139.
3817	136.	137.	152.	156.	151.	154.	150.	141.	148.	168.
3818	138.	143.	152.	144.	143.	147.	154.	147.	155.	158.
3819	147.	140.	144.	159.	152.	150.	153.	146.	137.	140.
3820	128.	123.	120.	116.	123.	127.	118.	120.	121.	119.
3821	152.	148.	152.	152.	141.	140.	122.	137.	128.	133.
3822	164.	165.	154.	152.	140.	141.	150.	139.	130.	131.
3823	146.	157.	185.	175.	165.	165.	178.	129.	165.	165.
3824	136.	140.	139.	141.	127.	100.	104.	123.	108.	121.
3825	150.	b	b	b	139.	b	b	b	142.	b
3826	147.	150.	143.	149.	155.	137.	139.	147.	152.	146.
3827	150.	168.	164.	173.	159.	159.	169.	154.	161.	150.
3828	137.	132.	157.	b	206.	157.	174.	156.	141.	135.
3829	125.	111.	123.	125.	123.	100.	112.	105.	104.	97.
3830	145.	156.	147.	149.	140.	142.	148.	138.	143.	141.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C39 (PAGE 2): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY		
3831	141.	158.	148.	156.	146.	142.	129.	116.	127.	139.
3832	154.	146.	157.	166.	163.	162.	160.	150.	131.	130.
3833	141.	144.	146.	b	147.	b	155.	146.	178.	157.
3834	138.	135.	135.	143.	141.	146.	144.	140.	130.	129.
3835	120.	b	149.	139.	105.	128.	132.	124.	140.	133.
3836	134.	127.	125.	136.	143.	131.	132.	119.	128.	123.
3837	136.	133.	144.	131.	139.	134.	138.	132.	142.	147.
3838	146.	130.	138.	123.	135.	127.	137.	117.	120.	126.
3839	124.	129.	127.	127.	120.	113.	116.	113.	119.	106.
3840	168.	166.	197.	216.	209.	197.	185.	161.	154.	164.
3841	138.	154.	147.	145.	132.	141.	140.	130.	128.	141.
3842	152.	154.	184.	174.	173.	156.	146.	140.	139.	136.
3843	134.	130.	161.	145.	145.	129.	147.	132.	138.	138.
3844	135.	132.	139.	148.	148.	149.	153.	145.	156.	166.
3845	138.	130.	140.	138.	129.	108.	139.	146.	123.	122.
3846	130.	b	150.	147.	137.	141.	155.	154.	146.	182.
3847	151.	156.	b	179.	198.	170.	163.	b	168.	151.
3848	150.	128.	137.	136.	135.	133.	135.	134.	130.	130.
3849	136.	106.	111.	111.	106.	c	120.	104.	97.	90.
3850	162.	154.	149.	129.	145.	143.	135.	125.	123.	121.
3851	148.	131.	144.	142.	138.	137.	150.	144.	136.	137.
3852	164.	154.	159.	162.	151.	146.	149.	141.	144.	152.
3853	139.	133.	133.	136.	126.	b	127.	b	125.	125.
3854	139.	138.	133.	137.	139.	143.	136.	135.	131.	138.
3855	139.	141.	140.	142.	138.	138.	151.	134.	125.	135.
3856	148.	b	163.	162.	167.	166.	163.	156.	156.	167.
3857	143.	147.	142.	156.	147.	146.	146.	142.	150.	161.
3858	161.	164.	179.	191.	171.	166.	174.	153.	153.	149.
3859	143.	b	b	b	175.	151.	144.	119.	150.	151.
3860	b	b	154.	172.	154.	154.	b	133.	135.	136.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.
c. Soiled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C39 (PAGE 3): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY		
3861	144.	132.	131.	131.	144.	133.	134.	123.	136.	130.
3862	140.	154.	173.	156.	151.	156.	159.	134.	124.	105.
3863	139.	130.	142.	140.	150.	142.	150.	135.	129.	136.
3864	140.	137.	143.	148.	148.	149.	129.	127.	135.	137.
3865	146.	149.	171.	182.	177.	163.	134.	151.	176.	166.
3866	126.	149.	188.	144.	201.	139.	144.	134.	137.	141.
3867	137.	139.	165.	177.	147.	138.	144.	139.	133.	137.
3868	139.	131.	140.	136.	144.	133.	128.	130.	133.	132.
3869	137.	138.	158.	159.	153.	156.	155.	140.	143.	148.
3870	156.	135.	141.	b	142.	147.	148.	146.	147.	147.
3871	194.	155.	159.	b	153.	b	150.	141.	146.	b
3872	155.	157.	165.	160.	163.	165.	162.	144.	158.	158.
3873	129.	121.	136.	134.	126.	121.	129.	118.	120.	119.
3874	153.	149.	165.	174.	162.	158.	159.	142.	137.	143.
3875	132.	125.	124.	144.	132.	130.	130.	124.	116.	119.
3876	130.	154.	b	185.	151.	b	170.	b	162.	155.
3877	137.	143.	152.	159.	147.	153.	145.	154.	152.	147.
3878	144.	b	165.	165.	166.	162.	160.	164.	166.	162.
3879	152.	154.	163.	169.	159.	160.	163.	141.	137.	147.
3880	159.	163.	179.	178.	175.	194.	176.	b	189.	b
3881	140.	149.	141.	142.	144.	148.	137.	143.	147.	144.
3882	142.	138.	141.	161.	146.	166.	141.	161.	134.	139.
3883	126.	139.	150.	164.	156.	156.	158.	151.	145.	157.
3884	148.	139.	143.	139.	128.	157.	135.	137.	144.	139.
3885	141.	157.	175.	b	b	b	b	b	159.	b
3886	166.	174.	184.	156.	154.	164.	157.	156.	142.	147.
3887	156.	178.	172.	167.	161.	162.	151.	147.	145.	136.
3888	133.	138.	146.	150.	135.	139.	153.	142.	149.	138.
3889	127.	138.	133.	122.	131.	143.	129.	120.	132.	139.
3890	135.	120.	129.	124.	125.	121.	125.	118.	115.	114.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C39 (PAGE 4): FEED CONSUMPTION VALUES - PRECOHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DAYS	1- 8	8- 15	15- 22	22- 29	29- 36	36- 43	43- 50	50- 57	57- 64	64- 71a
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY		
3891	146.	177.	134.	135.	129.	134.	135.	126.	121.	134.
3892	153.	144.	157.	154.	162.	160.	164.	b	160.	158.
3893	146.	139.	b	b	160.	159.	179.	163.	127.	155.
3894	142.	126.	120.	128.	128.	116.	123.	119.	125.	119.
3895	136.	136.	141.	132.	146.	135.	134.	126.	128.	123.
3896	169.	151.	164.	170.	168.	166.	172.	153.	165.	169.
3897	131.	127.	133.	136.	127.	126.	129.	124.	127.	126.
3898	139.	142.	132.	127.	126.	132.	124.	119.	123.	117.
3899	b	128.	132.	133.	122.	133.	141.	132.	b	138.
3900	157.	164.	170.	170.	153.	162.	159.	b	b	150.
3901	b	131.	133.	133.	121.	130.	116.	119.	119.	131.
3902	139.	143.	149.	157.	153.	137.	142.	135.	158.	117.
3903	122.	108.	119.	126.	122.	116.	129.	123.	123.	117.
3904	131.	128.	136.	134.	143.	139.	148.	b	b	134.
3905	138.	141.	150.	140.	136.	133.	141.	b	125.	126.
3906	151.	145.	149.	167.	174.	154.	157.	144.	144.	135.
3907	129.	139.	143.	138.	141.	148.	125.	136.	133.	135.
3908	138.	136.	143.	b	152.	145.	144.	145.	129.	130.
3909	128.	134.	132.	141.	b	139.	137.	140.	133.	140.
3910	152.	145.	155.	b	146.	142.	142.	142.	133.	136.
3911	150.	141.	140.	147.	138.	131.	137.	143.	139.	143.
3912	130.	139.	149.	150.	145.	149.	139.	136.	139.	123.
3913	154.	183.	161.	199.	163.	184.	160.	175.	183.	154.
3914	156.	b	176.	158.	153.	155.	145.	153.	146.	149.
3915	145.	135.	164.	b	b	156.	156.	161.	b	137.
3916	146.	138.	131.	158.	154.	211.	132.	145.	b	128.
3917	136.	140.	137.	140.	134.	138.	140.	131.	134.	136.
3918	145.	150.	153.	155.	130.	134.	138.	142.	133.	127.
3919	145.	158.	149.	150.	138.	148.	144.	151.	147.	137.
3920	131.	130.	141.	132.	129.	121.	124.	114.	110.	106.

DAYS = DAYS OF STUDY
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Last value recorded before cohabitation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C40 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 7	7 - 14	14 - 21	21 - 25
RAT #	DOSAGE GROUP 1			0 (CARRIER) MG/KG/DAY
3801 P	169.	175.	181.	
3802 P	196.	208.	193.	
3803 P	169.	184.	194.	
3804 P	153.	125.	167.	
3805 P	142.	162.	180.	
3806 P	176.	202.	218.	
3807 P	183.	186.	217.	
3808 P	145.	164.	188.	
3809 P	158.	166.	188.	
3810 P	147.	188.	216.	
3811 P	167.	189.	190.	
3812 P	179.	194.	175.	
3813 P	167.	176.	170.	
3814 P	139.	162.	177.	
3815 P	171.	179.	177.	
3816 P	202.	189.	192.	
3817 NP	179.	178.	134.	62.
3818 P	212.	214.	210.	
3819 P	171.	189.	191.	
3820 NP	161.	175.	154.	69.
3821 P	164.	194.	197.	
3822 P	150.	156.	171.	
3823 P	194.	196.	160.	
3824 P	152.	166.	184.	
3825 P	174.	182.	182.	
3826 P	178.	194.	206.	
3827 P	a	a	204.	
3828 P	180.	191.	190.	
3829 P	135.	141.	160.	
3830 P	145.	171.	182.	

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C40 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	RAT #	DOSAGE GROUP 2	0 - 7 DAYS	7 - 14 DAYS	14 - 21 DAYS	21 - 25 DAYS
				0.3 MG/KG/DAY		
P	3831		152.	167.	193.	
NP	3832		MATING NOT CONFIRMED			
P	3833		183.	193.	189.	
P	3834		161.	196.	194.	
NP	3835		MATING NOT CONFIRMED			
NP	3836		170.	174.	111.	56.
P	3837		179.	204.	212.	
P	3838		168.	164.	192.	
NP	3839		MATING NOT CONFIRMED			
NP	3840		187.	185.	131.	66.
NP	3841		154.	158.	127.	70.
P	3842		139.	179.	189.	
P	3843		177.	198.	204.	
NP	3844		158.	191.	166.	87.
P	3845		168.	153.	200.	
P	3846		a	172.	192.	
P	3847		166.	183.	196.	
P	3848		167.	191.	183.	
P	3849		124.	149.	171.	
P	3850		147.	169.	191.	
P	3851		180.	182.	185.	
P	3852		180.	189.	189.	
NP	3853		MATING NOT CONFIRMED			
P	3854		a	126.	130.	
P	3855		200.	220.	189.	
P	3856		a	a	a	
P	3857		161.	178.	194.	
P	3858		239.	a	200.	
P	3859		a	178.	188.	
P	3860		158.	180.	171.	

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C40 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	RAT #	DOSAGE GROUP 3				3.0 MG/KG/DAY
		DAYS 0 - 7	7 - 14	14 - 21	21 - 25	
P	3861	152.	177.	190.		
P	3862	167.	189.	190.		
P	3863	147.	176.	185.		
P	3864	165.	178.	207.		
P	3865	187.	204.	204.		
P	3866	165.	210.	180.		
P	3867	164.	161.	171.		
P	3868	158.	171.	189.		
P	3869	190.	169.	179.		
NP	3870	178.	199.	144.	64.	
NP	3871	MATING NOT CONFIRMED				
P	3872	183.	193.	183.		
P	3873	150.	161.	173.		
NP	3874	164.	190.	122.	57.	
P	3875	160.	177.	194.		
P	3876	a	178.	206.		
P	3877	190.	207.	209.		
P	3878	190.	218.	218.		
P	3879	168.	175.	181.		
P	3880	186.	213.	216.		
P	3881	170.	MORIBUND SACRIFICED ON DAY 9 OF GESTATION			
P	3882	165.	185.	219.		
P	3883	177.	179.	179.		
P	3884	171.	183.	205.		
P	3885	157.	185.	212.		
NP	3886	163.	173.	133.	87.	
P	3887	189.	189.	182.		
P	3888	192.	203.	186.		
P	3889	165.	202.	183.		
P	3890	145.	156.	171.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C40 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 7	7 - 14	14 - 21	21 - 25
RAT #	DOSAGE GROUP 4			30.0 MG/KG/DAY
3891 P	163.	166.	177.	
3892 P	166.	177.	180.	
3893 P	a	181.	186.	
3894 P	166.	186.	196.	
3895 P	149.	160.	176.	
3896 NP	199.	166.	156.	78.
3897 P	145.	164.	192.	
3898 NP	183.	173.	99.	59.
3899 P	196.	205.	202.	
3900 P	197.	187.	208.	
3901 P	151.	171.	206.	
3902 P	172.	168.	174.	
3903 NP	137.	145.	112.	58.
3904 P	161.	172.	182.	
3905 P	161.	143.	141.	
3906 P	190.	217.	206.	
3907 P	171.	172.	190.	
3908 NP	170.	143.	108.	76.
3909 NP	170.	150.	125.	73.
3910 P	143.	167.	179.	
3911 P	180.	171.	186.	
3912 P	169.	185.	188.	
3913 P	208.	202.	217.	
3914 NP	201.	217.	118.	61.
3915 P	NO CONFIRMED MATING DATE			
3916 P	168.	202.	205.	
3917 P	181.	174.	192.	
3918 P	173.	188.	184.	
3919 P	166.	184.	206.	
3920 P	143.	163.	177.	

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C41 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

	DAYS 1 - 4	4 - 7	7 - 14a
DAM #	DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
3801	96.	184.	b
3802	51.	72.	70.
3803	107.	160.	323.
3804	99.	157.	332.
3805	97.	141.	b
3806	61.	125.	303.
3807	105.	147.	b
3808	54.	144.	465.
3809	90.	175.	82.
3810	94.	159.	b
3811	61.	141.	b
3812	78.	137.	b
3813	80.	128.	222.
3814	121.	148.	177.
3815	106.	140.	213.
3816	76.	118.	c
3817	NOT PREGNANT		
3818	105.	147.	196.
3819	74.	120.	178.
3820	NOT PREGNANT		
3821	83.	136.	b
3822	c	280.	206.
3823	86.	145.	303.
3824	81.	c	b
3825	76.	164.	107.
3826	72.	126.	b
3827	87.	126.	b
3828	61.	73.	375.
3829	89.	138.	b
3830	65.	109.	375.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Feed access was interrupted; value excluded from group averages and statistical analyses.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C41 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

	DAYS 1 - 4	4 - 7	7 - 14a
DAM #	DOSAGE GROUP 2		0.3 MG/KG/DAY
3831	96.	217.	b
3832	NOT PREGNANT		
3833	94.	170.	b
3834	115.	150.	b
3835	NOT PREGNANT		
3836	NOT PREGNANT		
3837	79.	150.	b
3838	100.	172.	b
3839	NOT PREGNANT		
3840	NOT PREGNANT		
3841	NOT PREGNANT		
3842	68.	141.	428.
3843	94.	158.	b
3844	NOT PREGNANT		
3845	104.	135.	333.
3846	103.	157.	213.
3847	54.	111.	285.
3848	86.	151.	b
3849	88.	141.	214.
3850	109.	169.	b
3851	126.	177.	189.
3852	102.	156.	218.
3853	NOT PREGNANT		
3854	90.	148.	c
3855	115.	185.	221.
3856	191.	185.	214.
3857	90.	135.	b
3858	37.	105.	187.
3859	147.	198.	c
3860	113.	158.	288.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Feed access was interrupted; value excluded from group averages and statistical analyses.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C41 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

	DAYS 1 - 4	4 - 7	7 - 14a
DAM #	DOSAGE GROUP 3		3.0 MG/KG/DAY
3861	104.	192.	b
3862	92.	115.	166.
3863	96.	149.	235.
3864	79.	149.	b
3865	98.	222.	113.
3866	87.	147.	238.
3867	c	c	233.
3868	78.	123.	b
3869	151.	c	238.
3870	NOT PREGNANT		
3871	NOT PREGNANT		
3872	85.	139.	b
3873	124.	177.	238.
3874	NOT PREGNANT		
3875	108.	111.	232.
3876	114.	187.	257.
3877	82.	157.	b
3878	61.	112.	357.
3879	109.	154.	289.
3880	99.	193.	b
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION		
3882	67.	96.	369.
3883	111.	164.	281.
3884	126.	172.	208.
3885	88.	198.	b
3886	NOT PREGNANT		
3887	82.	132.	261.
3888	95.	175.	122.
3889	78.	135.	b
3890	79.	123.	152.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Feed access was interrupted; value excluded from group averages and statistical analyses.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C41 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

	DAYS 1 - 4	4 - 7	7 - 14a
DAM #	DOSAGE GROUP 4		30.0 MG/KG/DAY
3891	98.	192.	266.
3892	39.	66.	184.
3893	95.	234.	b
3894	83.	150.	b
3895	57.	123.	b
3896	NOT PREGNANT		
3897	55.	109.	b
3898	NOT PREGNANT		
3899	87.	186.	b
3900	84.	163.	b
3901	89.	152.	b
3902	102.	143.	b
3903	NOT PREGNANT		
3904	127.	167.	234.
3905	37.	83.	186.
3906	61.	132.	b
3907	80.	145.	b
3908	NOT PREGNANT		
3909	NOT PREGNANT		
3910	67.	127.	b
3911	110.	178.	170.
3912	114.	164.	246.
3913	98.	195.	b
3914	NOT PREGNANT		
3915	46.	166.	b
3916	101.	142.	270.
3917	78.	154.	b
3918	87.	150.	b
3919	114.	169.	277.
3920	103.	148.	249.

DAYS = DAYS OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Feed access was interrupted; value excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C42 (PAGE 1): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 1			0 (CARRIER) MG/KG/DAY		
3801	5	1	3816	6	4
3802	4	4	3817	7	1
3803	5	14	3818	6	4
3804	6	14	3819	6	4
3805	5	1	3820	4	1
3806	6	3	3821	5	3
3807	5	2	3822	6	4
3808	5	3	3823	6	8
3809	4a	3	3824	5	2
3810	4	1	3825	6	3
3811	5	3	3826	5	2
3812	6	3	3827	5	3
3813	5	3	3828	7	4
3814	6	4	3829	4	1
3815	5	4	3830	6	1

a. Six or more consecutive days of diestrus were observed.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C42 (PAGE 2): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 2			0.3 MG/KG/DAY		
3831	4	2	3846	8	4
3832	5	14a	3847	5	2
3833	6	1	3848	4	3
3834	5	3	3849	7	4
3835	5	14a	3850	5	1
3836	5	2	3851	5	4
3837	3b	1	3852	6	4
3838	5	1	3853	4	14a
3839	3b	14a	3854	6	1
3840	4	3	3855	7	4
3841	6	1	3856	5	3
3842	6	2	3857	4b	3
3843	5	1	3858	9	4
3844	2c	4	3859	7	4
3845	5	14	3860	5	3

a. Mating not confirmed.
b. Six or more consecutive days of diestrus were observed.
c. Six or more consecutive days of estrus were observed.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C42 (PAGE 3): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 3			3.0 MG/KG/DAY		
3861	5	2	3876	6	4
3862	6	4	3877	4	3
3863	6	4	3878	5	2
3864	5	1	3879	6	4
3865	6	3	3880	5a	1
3866	6	4	3881	5	2
3867	6	4	3882	4	1
3868	5	1	3883	7	4
3869	6	4	3884	6	4
3870	5	1	3885	5	1
3871	4a	14b	3886	8	1
3872	5	1	3887	5	4
3873	6	4	3888	4	3
3874	6	4	3889	5	1
3875	6	4	3890	6	4

a. Six or more consecutive days of diestrus were observed.
b. Mating not confirmed.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C42 (PAGE 4): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 4			30.0 MG/KG/DAY		
3891	7	4	3906	4	3
3892	5	2	3907	5	1
3893	6	1	3908	5	10
3894	6	1	3909	4	3
3895	5	2	3910	6	4
3896	5	2	3911	7	4
3897	5	2	3912	5	3
3898	5	4	3913	5	3
3899	5	2	3914	5	1
3900	5	2	3915	6	14a
3901	5	1	3916	5	4
3902	3b	3	3917	4	3
3903	7	1	3918	6	3
3904	5	4	3919	5	4
3905	7	14	3920	6	4

a. No confirmed mating date.
b. Six or more consecutive days of diestrus were observed.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C43 (PAGE 1): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS/F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 1 — 0 (CARRIER) MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
3801	22	15	0	15	8	7	8	7	7	7	7	7	7	7	16
3802	23	4	0	4	1	3	1	3	1	3	1	3	1	3	5
3803	23	18	0	18	9	9	9	9	9	9	9	8	9	8	18
3804	23	17	0	17	8	9	8	9	8	9	8	9	8	9	17
3805	23	17	0	17	4	13	4	13	4	13	4	13	4	12	18
3806	23	18(2)	1	20[1]	9	7	9	7	9	6	9	6	9	6	20
3807	23	15	0	15	6	9	6	9	6	9	6	9	6	9	17
3808	22	12	0	12	5	7	5	7	5	7	5	7	5	7	13
3809	23	17	0	17	8	9	8	9	8	9	8	9	8	9	18
3810	22	16(1)	0	16	7	8	7	8	7	8	7	8	7	8	18
3811	23	17	0	17	9	8	9	8	9	8	9	7	9	7	17
3812	23	19	1	20	11	8	11	7	11	6	11	6	11	6	20
3813	23	14	0	14	7	7	7	7	7	7	7	7	7	7	15
3814	23	12	0	12	6	6	6	6	6	6	6	6	6	6	15
3815	23	17	0	17	10	7	9	7	9	7	9	7	9	7	17
3816	23	15(1)	0	15	7	7	7	7	7	7	7	7	7	7	16
3817	NOT PREGNANT														
3818	23	19	0	19	14	5	13	4	13	4	13	4	13	4	21
3819	23	13	0	13	7	6	7	6	7	6	7	6	7	6	13
3820	NOT PREGNANT														
3821	22	16	0	16	11	5	11	5	11	5	11	5	11	5	16
3822	23	15(1)	0	15	3	11	3	11	3	11	3	11	3	11	15
3823	23	11	0	11	7	4	7	4	7	4	7	4	7	4	14
3824	23	13	0	13	7	6	7	6	7	6	7	6	7	6	13
3825	23	17	0	17	4	13	4	13	4	13	4	12	4	12	17
3826	23	16	2	18	9	7	9	7	9	7	9	7	9	7	19
3827	22	15	0	15	8	7	8	6	8	6	8	6	8	6	15
3828	22	14	0	14	8	6	8	6	6	5	6	4	6	4	14
3829	22	11	0	11	6	5	6	5	6	5	6	5	6	5	13
3830	23	13	0	13	6	7	5	7	4	5	4	4	4	4	13

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.
[ ] = NUMBER OF PUPS IN WHICH CANNIBALIZATION AND/OR AUTOLYSIS PRECLUDED THE DETERMINATION OF VIABILITY.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C43 (PAGE 2): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS/F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
3831	22	10	0	10	4	6	4	6	4	6	4	6	4	6	11
3832	NOT PREGNANT														
3833	23	14	2	16	7	7	6	7	6	7	6	7	6	7	16
3834	22	15	0	15	9	6	9	6	9	6	9	6	9	6	16
3835	NOT PREGNANT														
3836	NOT PREGNANT														
3837	23	10	0	10	6	4	6	4	6	4	6	4	6	4	12
3838	22	14	0	14	7	7	7	7	7	7	7	7	7	7	14
3839	NOT PREGNANT														
3840	NOT PREGNANT														
3841	NOT PREGNANT														
3842	23	16	0	16	7	9	7	9	7	9	7	9	7	9	16
3843	22	18	0	18	14	4	14	4	12	4	11	4	11	4	19
3844	NOT PREGNANT														
3845	23	20	0	20	12	8	11	8	11	7	10	7	10	7	22
3846	22	18	0	18	8	10	8	9	8	9	8	9	8	9	18
3847	23	5	0	5	2	3	2	3	2	3	2	3	2	3	5
3848	23	17	0	17	10	7	10	7	10	7	10	6	10	6	17
3849	22	12	0	12	8	4	8	4	8	4	8	4	8	4	14
3850	23	16	0	16	8	8	8	8	8	8	8	7	8	7	16
3851	23	18	0	18	7	11	7	11	6	11	5	11	5	11	18
3852	22	16	0	16	6	10	6	10	6	10	6	10	6	10	18
3853	NOT PREGNANT														
3854	22	14(1)	2	16	8	5	7	5	7	4	7	4	7	4	18
3855	22	18	0	18	9	9	9	9	9	9	9	9	9	9	18
3856	23	11	0	11	3	8	3	8	3	8	3	8	3	8	13
3857	23	19	0	19	7	12	7	12	6	11	6	10	6	10	21
3858	22	16(1)	0	16	5	10	5	10	5	9	5	8	5	8	17
3859	23	15	0	15	6	9	6	9	6	9	6	9	6	9	15
3860	23	12	0	12	7	5	7	5	7	5	7	5	7	5	13

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C43 (PAGE 3): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS/F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 3 — 3.0 MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
3861	23	16	0	16	6	10	6	10	6	10	6	10	6	10	17
3862	23	16	0	16	6	10	6	10	6	9	6	9	6	9	18
3863	22	15	0	15	10	5	10	5	10	5	10	5	10	5	16
3864	22	15	0	15	6	9	5	9	5	9	5	9	5	9	15
3865	23	19	0	19	8	11	8	11	8	11	8	10	8	10	19
3866	23	11	0	11	5	6	5	6	5	6	5	6	5	6	12
3867	23	18	0	18	6	12	6	12	6	12	6	11	6	11	18
3868	23	10	0	10	4	6	4	6	4	6	4	6	4	6	13
3869	22	17	0	17	10	7	10	7	10	7	10	7	10	7	17
3870	NOT PREGNANT														
3871	NOT PREGNANT														
3872	23	15	0	15	8	7	8	7	8	7	8	7	8	7	16
3873	22	15	0	15	8	7	8	7	8	7	8	7	8	7	17
3874	NOT PREGNANT														
3875	22	14	0	14	9	5	9	3	9	3	9	3	9	3	15
3876	23	13	0	14[1]	5	8	5	8	5	8	5	8	5	8	15
3877	23	11	0	11	5	6	5	6	5	6	5	6	5	6	11
3878	22	8	0	8	7	1	6	1	6	1	6	1	6	1	9
3879	23	16	0	16	11	5	11	5	11	4	11	4	11	4	16
3880	23	16	0	16	11	5	11	5	11	5	11	5	11	5	18
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION														
3882	23	8	0	8	3	5	3	5	3	5	3	5	3	5	10
3883	23	15	0	15	8	7	8	7	8	7	8	7	8	7	17
3884	23	12	0	12	5	7	5	7	5	7	5	7	5	7	14
3885	22	15	0	15	10	5	10	5	10	5	10	4	10	4	15
3886	NOT PREGNANT														
3887	22	17	0	17	5	12	5	12	5	12	5	12	5	12	18
3888	23	15	1	16	6	9	6	9	6	9	6	9	6	9	17
3889	23	17	0	17	4	13	4	13	4	13	4	12	4	12	17
3890	23	6	0	6	3	3	3	3	3	3	3	3	3	3	6

M = MALE F = FEMALE

[ ] = NUMBER OF PUPS IN WHICH CANNIBALIZATION AND/OR AUTOLYSIS PRECLUDED THE DETERMINATION OF VIABILITY.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C43 (PAGE 4): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS/F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 4 — 30.0 MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
3891	22	16	0	16	7	9	7	9	7	9	7	9	7	9	16
3892	24	2	0	2	-	2	-	2	-	2	-	2	-	2	3
3893	23	13	0	13	4	9	4	9	4	9	4	9	4	9	13
3894	23	15	0	15	7	8	4	7	4	7	4	7	4	7	15
3895	22	13	0	13	7	6	6	6	6	6	6	6	6	6	15
3896	NOT PREGNANT														
3897	23	15	0	15	11	4	11	4	11	4	11	4	11	4	15
3898	NOT PREGNANT														
3899	23	14	0	14	9	5	9	5	9	5	9	5	9	5	16
3900	23	13	0	13	6	7	6	6	6	6	6	6	6	6	15
3901	23	15	0	15	8	7	8	7	8	7	8	7	8	7	15
3902	22	17	0	17	7	10	7	10	7	10	7	10	7	10	17
3903	NOT PREGNANT														
3904	23	14	0	14	10	4	10	4	10	4	10	4	10	4	18
3905	23	3	0	3	2	1	2	1	2	1	2	1	2	1	3
3906	23	15	0	15	5	10	4	10	4	10	4	10	4	10	16
3907	23	14	0	14	7	7	7	7	7	7	7	7	7	7	14
3908	NOT PREGNANT														
3909	NOT PREGNANT														
3910	22	12	0	12	7	5	7	5	7	5	7	5	7	5	14
3911	23	16	0	16	8	8	8	8	8	8	8	8	8	8	18
3912	23	17	0	17	8	9	8	9	7	9	7	9	7	9	19
3913	22	15	1	16	7	8	7	8	7	8	7	8	7	8	17
3914	NOT PREGNANT														
3915	a	13	0	13	8	5	8	5	8	5	8	5	8	5	14
3916	23	16	0	16	6	10	6	10	6	10	6	10	6	10	16
3917	23	16	0	16	6	10	6	10	6	10	5	9	5	9	18
3918	23	17	2	19	8	9	8	9	8	9	8	9	8	9	19
3919	23	17	0	17	8	9	8	9	8	8	8	8	8	8	19
3920	23	14	0	14	9	5	9	5	9	5	9	5	9	5	14

M = MALE F = FEMALE

a. No confirmed mating date.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C44 (PAGE 1): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 1 — 0 (CARRIER) MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
3801	6.2	6.1	6.1	8.0	8.1	8.0	12.1	12.5	12.3	23.4	23.7	23.6	35.2	35.1	35.2
3802	8.7	8.5	8.6	14.7	14.2	14.4	22.6	21.9	22.1	44.9	42.6	43.2	71.6	66.3	67.6
3803	6.4	6.2	6.3	9.0	8.1	8.6	12.3	11.2	11.8	23.3	22.4	22.8	33.3	33.1	33.2
3804	6.3	5.9	6.1	8.9	8.6	8.8	12.3	11.6	11.9	24.6	21.6	23.0	37.6	33.0	35.2
3805	6.5	6.2	6.3	8.6	8.1	8.2	12.1	11.4	11.6	21.7	19.7	20.1	31.7	30.5	30.8
3806	7.2	7.1	7.2	9.1	8.3	8.7	12.8	11.9	12.5	27.5	26.2	27.0	41.0	37.3	39.6
3807	6.6	6.5	6.5	10.1	9.9	10.0	14.7	14.6	14.6	27.4	27.0	27.1	39.9	38.4	39.0
3808	6.0	5.7	5.8	8.7	8.0	8.2	12.7	11.7	12.1	27.7	26.2	26.9	41.8	41.0	41.3
3809	6.5	6.1	6.3	8.8	8.2	8.5	12.5	11.7	12.0	23.8	22.1	22.9	36.2	34.2	35.1
3810	6.5	6.0	6.3	9.4	8.9	9.1	13.3	13.0	13.1	23.6	23.0	23.3	36.9	36.3	36.6
3811	6.7	6.0	6.4	8.4	7.3	7.9	11.6	9.6	10.6	20.6	17.9	19.4	32.9	28.7	31.1
3812	6.4	6.1	6.3	7.8	7.1	7.5	10.4	10.0	10.3	21.9	21.6	21.8	33.3	32.8	33.1
3813	7.4	7.2	7.3	10.2	9.9	10.0	14.4	13.8	14.1	26.0	26.4	26.2	41.4	42.4	41.9
3814	7.7	7.8	7.8	11.4	11.2	11.2	16.1	15.6	15.8	29.0	28.0	28.5	47.5	46.6	47.0
3815	7.3	6.7	7.1	10.2	9.3	9.8	14.1	12.8	13.6	25.1	22.4	23.9	40.4	36.9	38.9
3816	7.1	6.5	6.8	10.5	9.3	9.9	14.6	12.9	13.7	26.4	24.6	25.5	41.5	38.8	40.2
3817	NOT PREGNANT														
3818	6.5	6.3	6.4	8.8	8.2	8.6	12.9	12.0	12.7	23.0	21.5	22.6	34.2	32.6	33.8
3819	7.0	6.6	6.8	10.3	9.7	10.0	15.2	14.2	14.7	28.4	27.1	27.8	44.9	43.0	44.0
3820	NOT PREGNANT														
3821	5.7	5.5	5.7	7.8	7.2	7.6	12.0	10.4	11.5	23.1	20.3	22.2	33.9	28.8	32.3
3822	7.7	7.5	7.6	10.8	10.6	10.6	15.3	14.4	14.6	26.3	25.8	25.9	37.5	34.6	35.2
3823	7.2	6.9	7.1	10.5	10.4	10.5	14.8	14.9	14.8	26.0	26.8	26.3	43.8	45.3	44.4
3824	7.0	6.3	6.6	9.8	9.2	9.5	11.4	11.1	11.3	22.8	22.2	22.5	34.7	33.8	34.2
3825	6.3	5.9	6.0	7.8	7.2	7.3	10.9	10.1	10.3	20.6	20.2	20.3	30.9	31.0	31.0
3826	6.6	6.4	6.5	9.1	9.0	9.1	12.1	11.8	12.0	21.2	20.8	21.0	30.5	31.1	30.8
3827	6.2	5.4	5.8	7.9	7.2	7.6	10.2	9.0	9.7	21.7	21.2	21.5	33.5	32.8	33.2
3828	6.1	5.8	6.0	5.4	5.3	5.4	5.8	5.7	5.8	14.9	16.9	15.7	31.2	33.6	32.1
3829	6.6	6.3	6.5	10.1	9.7	9.9	14.4	14.1	14.3	26.0	26.1	26.1	41.4	41.8	41.6
3830	6.5	6.1	6.3	7.3	7.0	7.1	10.6	10.1	10.3	25.7	26.2	26.0	41.2	42.6	41.9

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C44 (PAGE 2): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
3831	7.3	6.9	7.1	10.1	10.0	10.0	14.2	13.9	14.0	30.1	29.5	29.7	44.2	43.3	43.7
3832	NOT PREGNANT														
3833	6.3	6.2	6.2	9.6	9.3	9.4	14.9	14.7	14.8	29.0	28.6	28.8	44.4	44.2	44.3
3834	6.6	6.0	6.3	9.0	8.2	8.7	14.0	12.6	13.4	27.0	25.4	26.4	40.2	38.0	39.3
3835	NOT PREGNANT														
3836	NOT PREGNANT														
3837	7.0	6.2	6.7	9.6	8.4	9.1	15.2	13.2	14.4	31.7	29.1	30.6	47.5	46.4	47.0
3838	6.4	6.2	6.3	9.8	9.5	9.6	14.6	13.5	14.0	26.3	24.9	25.6	40.5	39.0	39.8
3839	NOT PREGNANT														
3840	NOT PREGNANT														
3841	NOT PREGNANT														
3842	6.5	6.3	6.4	8.2	8.4	8.3	11.3	11.7	11.5	21.1	22.3	21.8	32.5	33.8	33.2
3843	6.0	5.7	5.9	7.6	7.4	7.6	10.9	10.7	10.8	23.1	21.8	22.8	34.0	31.5	33.3
3844	NOT PREGNANT														
3845	6.3	5.8	6.1	8.9	7.7	8.4	11.6	10.3	11.1	23.4	20.3	22.1	33.5	28.8	31.6
3846	6.2	5.7	5.9	9.1	8.3	8.7	14.0	12.1	13.0	26.1	21.9	23.8	36.1	30.9	33.3
3847	8.2	7.1	7.5	12.4	11.1	11.6	17.8	17.0	17.3	36.4	36.1	36.2	56.3	55.3	55.7
3848	6.4	6.1	6.3	8.3	7.8	8.1	12.2	11.6	12.0	24.2	25.0	24.5	34.9	35.5	35.1
3849	7.0	6.3	6.8	10.3	9.3	10.0	14.7	13.3	14.2	27.6	25.8	27.0	41.9	39.3	41.0
3850	6.2	6.1	6.1	9.6	8.9	9.2	14.1	12.9	13.5	27.4	25.4	26.5	43.2	41.5	42.4
3851	6.5	6.2	6.3	8.6	8.4	8.5	11.7	11.9	11.8	22.9	24.1	23.7	34.0	34.2	34.1
3852	6.6	6.2	6.4	9.2	8.7	8.9	13.3	12.5	12.8	24.1	23.7	23.8	36.5	35.0	35.5
3853	NOT PREGNANT														
3854	5.3	5.5	5.4	7.2	7.0	7.1	10.0	11.1	10.4	24.3	25.8	24.8	41.7	43.4	42.3
3855	6.3	5.7	6.0	8.9	8.0	8.4	13.5	11.8	12.6	25.4	21.2	23.3	34.4	28.2	31.3
3856	7.4	7.3	7.3	11.8	11.6	11.6	18.2	17.7	17.8	34.9	34.4	34.6	54.0	52.6	53.0
3857	6.4	6.3	6.3	8.5	8.4	8.4	11.9	11.4	11.6	22.3	22.4	22.4	34.0	33.1	33.4
3858	6.6	5.8	6.0	6.7	5.8	6.1	10.3	9.1	9.5	23.1	21.7	22.2	34.9	33.3	33.9
3859	6.7	6.5	6.5	8.8	8.7	8.7	12.3	12.3	12.3	23.0	24.6	24.0	37.4	37.5	37.5
3860	8.1	7.8	8.0	11.5	10.9	11.3	16.4	15.5	16.0	31.1	29.4	30.4	49.1	45.9	47.8

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C44 (PAGE 3): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 3 — 3.0 MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
3861	7.1	6.8	6.9	9.1	8.6	8.8	12.7	11.8	12.2	23.7	22.3	22.8	36.0	34.1	34.8
3862	7.4	7.0	7.1	10.3	9.2	9.6	14.1	12.1	12.9	25.4	22.1	23.4	41.1	36.3	38.2
3863	6.5	6.0	6.4	8.7	8.0	8.5	12.5	12.0	12.3	23.9	23.2	23.6	34.5	32.2	33.7
3864	6.6	6.2	6.4	9.7	8.8	9.1	14.0	13.0	13.4	27.3	25.3	26.0	44.4	41.6	42.6
3865	6.2	6.3	6.3	8.4	8.6	8.5	11.5	11.5	11.5	20.8	20.6	20.7	32.7	31.7	32.1
3866	8.0	7.6	7.8	12.0	11.1	11.5	17.1	15.8	16.4	33.7	31.8	32.7	54.7	50.8	52.6
3867	7.1	6.9	7.0	9.1	8.4	8.6	11.9	11.6	11.7	25.1	23.1	23.8	36.8	34.6	35.4
3868	6.6	6.2	6.4	8.8	8.5	8.6	13.4	13.0	13.1	27.6	26.8	27.1	45.4	44.9	45.1
3869	6.6	6.0	6.4	9.2	8.5	8.9	12.4	11.5	12.0	22.3	20.8	21.6	32.0	29.9	31.1
3870	NOT PREGNANT														
3871	NOT PREGNANT														
3872	6.4	6.0	6.2	8.6	7.8	8.2	12.6	11.6	12.1	24.1	22.7	23.4	36.6	33.1	34.9
3873	7.1	6.7	6.9	9.2	8.5	8.9	12.2	11.9	12.1	23.3	20.5	22.0	34.3	31.2	32.9
3874	NOT PREGNANT														
3875	6.4	6.2	6.3	7.7	8.1	7.8	11.4	11.5	11.4	24.2	25.0	24.4	35.5	35.9	35.6
3876	6.8	6.0	6.3	9.4	8.6	8.9	14.1	13.0	13.4	26.9	27.0	27.0	41.7	40.2	40.8
3877	6.7	6.6	6.6	9.6	9.9	9.8	15.1	15.6	15.4	28.6	29.5	29.1	46.7	47.7	47.2
3878	6.3	6.8	6.4	10.9	11.6	11.3	17.4	18.5	17.6	36.9	39.0	37.2	60.0	66.7	60.9
3879	6.9	6.5	6.8	9.7	8.9	9.4	14.1	12.6	13.7	27.9	26.0	27.4	43.2	40.0	42.3
3880	6.3	5.9	6.2	9.6	8.8	9.3	13.9	12.9	13.6	27.4	26.8	27.2	40.8	40.7	40.8
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION														
3882	7.0	6.5	6.7	10.3	9.7	9.9	14.2	13.4	13.7	30.1	28.4	29.1	49.0	46.6	47.5
3883	7.1	6.3	6.7	9.2	8.5	8.9	13.1	12.2	12.7	25.0	23.9	24.5	36.6	36.1	36.4
3884	7.9	7.2	7.5	11.8	10.9	11.3	17.7	16.5	17.0	32.5	30.6	31.4	49.7	47.2	48.2
3885	6.1	5.7	6.0	7.8	7.4	7.7	12.0	10.5	11.5	24.2	24.8	24.4	38.2	37.1	37.9
3886	NOT PREGNANT														
3887	6.3	5.9	6.0	9.1	8.2	8.5	12.2	10.8	11.2	23.5	20.2	21.2	34.6	29.8	31.2
3888	7.1	6.6	6.8	8.8	8.1	8.4	12.2	11.2	11.6	22.9	20.4	21.4	35.3	31.6	33.1
3889	6.7	6.0	6.2	8.6	8.0	8.1	11.8	11.1	11.3	21.8	19.3	19.9	32.0	28.1	29.1
3890	9.1	8.8	9.0	14.4	13.8	14.1	21.9	21.1	21.5	43.3	42.0	42.6	70.0	66.3	68.2

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C44 (PAGE 4): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

MATERNAL DOSAGE GROUP 4 — 30.0 MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
3891	6.3	6.0	6.1	8.2	8.0	8.1	11.1	11.7	11.4	22.1	23.2	22.7	31.9	33.5	32.8
3892	---	8.0	8.0	---	10.2	10.2	---	14.4	14.4	---	24.0	24.0	---	42.2	42.2
3893	7.0	6.8	6.9	9.3	9.2	9.2	12.8	12.3	12.4	26.2	25.1	25.4	39.8	37.8	38.5
3894	6.0	6.0	6.0	9.6	8.5	8.9	14.5	13.2	13.6	30.1	27.8	28.6	51.4	46.3	48.2
3895	5.9	5.8	5.9	7.9	7.7	7.8	11.8	11.7	11.7	25.8	26.1	26.0	37.6	36.2	36.9
3896	NOT PREGNANT														
3897	6.6	6.4	6.6	9.1	8.6	9.0	12.2	11.4	12.0	21.6	21.6	21.6	32.8	32.0	32.6
3898	NOT PREGNANT														
3899	7.2	7.1	7.1	10.2	9.8	10.0	14.7	14.8	14.7	28.8	28.6	28.8	40.9	39.8	40.5
3900	6.6	6.2	6.4	9.6	9.6	9.6	14.8	14.4	14.6	30.2	29.6	29.9	47.6	46.8	47.2
3901	6.8	6.4	6.6	8.5	8.6	8.6	13.5	13.4	13.4	25.6	24.9	25.3	40.0	40.4	40.2
3902	6.2	6.0	6.1	8.7	8.4	8.5	12.3	11.8	12.0	22.5	21.7	22.0	33.1	30.7	31.7
3903	NOT PREGNANT														
3904	7.4	7.0	7.3	10.3	10.0	10.2	14.4	14.1	14.3	27.0	27.1	27.0	40.8	40.1	40.6
3905	7.0	7.2	7.1	11.2	10.9	11.1	16.0	17.4	16.5	35.6	34.7	35.3	55.8	57.9	56.5
3906	7.0	6.6	6.7	9.2	8.4	8.7	14.6	13.0	13.5	27.2	25.7	26.1	42.0	38.4	39.4
3907	6.7	6.2	6.5	9.3	8.7	9.0	13.7	12.6	13.2	24.6	23.9	24.3	41.7	40.6	41.2
3908	NOT PREGNANT														
3909	NOT PREGNANT														
3910	6.6	6.1	6.4	9.3	8.5	9.0	13.0	12.0	12.6	28.6	27.6	28.2	42.1	40.9	41.6
3911	7.5	7.1	7.3	10.3	9.6	10.0	14.9	13.8	14.3	26.2	25.4	25.8	42.5	39.2	40.8
3912	7.0	7.0	7.0	9.2	9.2	9.2	14.1	13.6	13.8	26.8	26.0	26.4	40.7	38.4	39.4
3913	5.6	5.3	5.4	8.0	7.7	7.8	11.6	11.2	11.4	21.2	20.5	20.8	33.8	32.6	33.2
3914	NOT PREGNANT														
3915	6.4	6.0	6.3	8.4	7.8	8.2	12.1	11.3	11.8	25.8	24.3	25.2	36.7	35.5	36.2
3916	6.6	6.0	6.2	9.4	8.6	8.9	14.1	12.7	13.2	26.7	24.1	25.1	37.7	33.7	35.2
3917	6.8	6.5	6.6	8.9	8.6	8.7	12.4	12.0	12.1	26.5	25.5	25.9	41.7	39.1	40.0
3918	6.1	6.1	6.1	8.4	8.4	8.4	11.9	11.8	11.8	21.6	21.2	21.4	33.3	31.9	32.5
3919	7.7	6.9	7.3	10.6	9.6	10.1	15.3	14.0	14.6	29.4	27.5	28.4	42.7	38.7	40.7
3920	6.8	6.6	6.8	10.8	10.3	10.6	16.2	15.8	16.1	30.4	30.7	30.5	48.7	49.0	48.8

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 1): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY					POSTPARTUM DAY 1				
3801	6.6	5.3	6.4	6.0	6.1	6.1	6.4	6.4	6.3	5.9	5.8	6.0	6.7	6.0	6.2					
3802	8.7	8.4	8.7	8.4																
3803	6.2	6.5	6.7	6.0	6.7	6.6	6.6	6.3	6.1	6.5	6.0	6.0	6.9	6.3	5.9	6.2	6.2	6.1		
3804	6.5	6.5	6.5	5.7	6.3	5.1	7.0	6.5	6.3	6.7	5.9	5.6	5.6	5.8	5.9	5.8	5.9			
3805	6.6	6.2	6.6	6.6	6.3	6.4	5.8	6.2	6.2	6.6	6.2	6.6	6.3	6.0	6.0	6.1	5.8			
3806	7.1	8.0	7.3	7.3	7.1	7.2	7.2	6.6	7.1	7.2	MD 1	7.8	6.9	6.5	7.5	7.1	6.8	FD 1	US	UU
3807	5.6	7.4	6.2	6.5	7.9	5.7	7.3	6.8	6.2	6.8	6.1	6.9	6.1	5.7	6.7					
3808	6.0	5.8	6.0	5.9	6.3	5.7	5.6	5.7	5.5	5.9	5.6	5.8								
3809	6.9	6.2	6.4	6.2	6.6	6.6	6.2	6.6	6.6	6.0	6.3	6.2	5.8	6.0	5.8	6.2	5.9			
3810	6.8	6.8	6.4	6.5	6.3	6.5	6.2	MD 1	6.2	5.6	6.1	6.3	6.1	6.4	5.7	6.0				
3811	6.7	6.1	6.1	7.2	7.1	6.9	7.4	6.0	6.9	6.7	6.0	6.0	5.5	5.9	5.8	5.8	6.0			
3812	6.7	5.9	5.9	6.1	7.0	5.9	7.3	6.6	6.8	6.8	5.8	6.1	5.6	6.0	6.4	6.0	6.2	6.4	6.4	FS
3813	7.6	7.2	7.6	7.8	6.9	7.3	7.2	7.5	7.1	6.9	7.1	7.2	7.1	7.3						
3814	8.1	7.6	7.9	7.8	8.3	6.6	7.5	8.3	8.2	7.5	7.6	7.8								
3815	6.9	7.4	7.2	7.3	7.9	7.7	7.7	7.2	7.5	6.6	6.3	7.1	6.8	6.1	6.4	7.2	6.8			
3816	6.9	7.3	7.5	7.0	6.9	7.2	7.2	6.3	5.7	6.9	7.2	6.5	6.5	6.7	FD 1					
3817	NOT PREGNANT																			
3818	6.1	6.6	6.5	6.5	6.4	6.7	6.8	6.8	6.6	6.6	6.1	6.8	6.1	6.6	6.7	6.1	6.2	6.0	6.5	
3819	7.5	7.0	7.1	6.7	7.1	6.8	6.9	6.6	6.8	6.7	6.6	6.4	6.4							
3820	NOT PREGNANT																			
3821	5.7	5.6	5.9	5.6	5.6	6.0	5.9	5.8	5.8	5.4	5.8	5.4	5.7	5.6	5.0	5.8				
3822	7.9	8.1	7.2	7.7	7.6	7.6	7.7	7.6	6.9	7.1	7.9	7.2	7.6	7.8	FD 1					
3823	7.5	7.2	7.5	7.8	7.7	5.2	7.9	6.1	6.5	7.4	7.5									
3824	7.0	7.4	7.1	6.6	6.8	6.9	6.9	6.5	6.0	6.2	6.5	6.3	6.2							
3825	6.6	5.9	6.7	5.9	6.4	5.8	5.4	6.0	6.1	5.6	5.7	6.0	5.8	6.1	5.9	6.2	5.4			
3826	6.4	7.0	6.4	6.0	6.7	6.3	6.8	6.5	7.1	MS	6.1	6.2	6.4	6.7	6.7	6.8	6.1	FS		
3827	6.2	6.0	6.2	5.8	6.3	6.5	6.6	5.9	5.4	6.0	5.5	5.6	5.4	5.7	4.4					
3828	6.0	5.6	6.0	6.6	6.3	5.8	6.2	6.0	5.9	6.0	5.9	6.1	5.5	5.6						
3829	6.2	7.3	6.6	6.6	6.6	6.5	6.4	6.4	6.6	6.3	5.7									
3830	6.3	6.5	6.2	6.6	6.3	7.0	5.7	6.6	6.0	6.1	6.1	5.9	6.3							

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 2): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 1				
3831	7.1	7.3	7.1	7.6	7.2	6.6	6.3	7.1	7.2	7.1										
3832	NOT PREGNANT																			
3833	6.2	6.9	6.7	5.8	7.2	4.7	6.7	MS	6.3	6.7	5.9	6.2	5.7	6.6	5.7	FS				
3834	6.9	6.2	6.8	6.4	6.2	6.1	6.8	6.8	7.0	5.5	5.6	5.8	6.1	6.3	6.7					
3835	NOT PREGNANT																			
3836	NOT PREGNANT																			
3837	6.9	7.2	7.0	6.8	6.9	7.2	7.0	6.3	6.5	5.2										
3838	6.6	6.1	6.6	6.7	6.3	6.2	6.6	6.0	6.2	6.2	6.4	6.4	6.2	6.1						
3839	NOT PREGNANT																			
3840	NOT PREGNANT																			
3841	NOT PREGNANT																			
3842	6.8	6.5	6.9	6.3	6.3	6.5	6.3	6.1	6.2	6.4	6.1	6.7	6.4	5.9	6.3	6.3				
3843	6.5	6.6	5.1	6.2	5.3	5.9	5.4	6.1	6.1	5.9	6.1	6.4	5.8	6.2	5.5	5.5	6.2	5.5		
3844	NOT PREGNANT																			
3845	6.7	6.6	6.3	6.8	6.4	6.2	6.0	6.4	6.1	6.2	6.5	5.0	5.9	6.0	5.6	5.6	5.9	5.9	5.3	5.8
3846	6.0	6.4	6.0	6.3	6.2	6.3	6.1	6.5	5.9	6.2	5.8	6.2	5.3	5.0	5.6	5.3	6.0	5.9		
3847	7.9	8.4	7.3	7.1	7.0															
3848	6.0	6.6	6.6	6.5	6.4	6.6	6.3	6.4	6.6	6.5	6.1	6.6	6.2	6.0	6.5	5.2	6.4			
3849	6.3	7.2	6.6	6.8	6.8	7.6	7.1	7.9	6.9	5.2	6.8	6.4								
3850	5.8	5.8	5.8	6.7	6.4	6.4	6.6	6.3	6.0	6.0	6.6	5.8	6.0	6.0	6.3	5.8				
3851	6.5	6.2	6.5	6.7	5.7	7.0	6.7	6.4	6.1	6.2	6.3	5.9	6.1	6.3	6.0	6.3	7.2	5.4		
3852	6.9	6.6	6.7	6.5	6.3	6.5	6.6	6.3	6.4	6.4	6.2	5.3	6.4	6.0	6.4	6.5				
3853	NOT PREGNANT																			
3854	5.9	5.7	5.2	4.3	5.5	4.4	5.6	6.0	MS	MS	5.4	4.7	6.2	5.7	5.5	FD 1				
3855	6.5	6.3	5.8	6.8	6.2	5.6	6.3	6.6	6.4	5.3	6.3	5.8	5.9	5.7	5.7	5.9	5.1	5.9		
3856	7.1	8.0	7.1	7.8	7.9	7.5	7.0	7.6	6.8	7.7	6.3									
3857	6.1	7.2	6.8	6.6	5.5	6.1	6.7	6.3	6.7	5.9	6.8	6.0	6.2	6.2	6.6	6.4	6.1	5.8	6.2	
3858	6.8	6.1	6.7	6.5	6.7	MD 1	6.7	4.6	5.3	5.9	5.6	5.7	5.5	6.3	6.0	6.1				
3859	6.5	6.5	6.3	6.6	7.1	7.0	6.4	6.7	6.3	6.4	6.3	6.3	6.7	6.7	6.4					
3860	8.1	8.5	8.2	7.9	7.7	8.3	8.3	7.9	8.2	7.1	7.7	8.0								

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 3): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY					POSTPARTUM DAY 1				
3861	7.1	7.0	7.0	7.2	7.1	7.1	6.6	7.2	7.6	6.6	6.8	6.2	7.3	6.6	6.9	6.5				
3862	7.1	7.1	7.4	7.7	7.8	7.6	6.3	6.8	6.5	8.1	7.0	6.5	7.1	7.6	7.3	6.4				
3863	6.5	6.9	6.5	6.6	6.6	6.7	6.8	5.9	6.1	6.7	6.1	6.0	6.3	5.7	5.9					
3864	6.2	6.9	6.8	6.5	6.6	6.9	6.5	6.2	5.8	6.2	6.0	6.2	6.0	6.2	6.4					
3865	6.0	6.4	5.9	6.0	5.4	6.6	7.1	6.4	6.3	6.4	6.0	6.0	6.2	6.5	6.5	6.4	6.0	6.0	7.0	
3866	7.9	7.7	8.4	7.6	8.6	7.5	7.3	7.5	8.0	7.4	8.0									
3867	7.0	7.4	6.7	7.8	7.2	6.7	7.3	7.2	7.2	6.9	6.5	7.2	6.8	6.5	6.9	6.7	7.1	6.8		
3868	6.7	6.4	6.5	6.9	6.3	6.1	6.1	6.2	6.7	6.0										
3869	6.4	6.5	6.3	6.8	6.5	7.3	5.9	7.2	6.5	6.6	6.1	6.4	5.9	5.3	6.2	6.2	6.2			
3870	NOT PREGNANT																			
3871	NOT PREGNANT																			
3872	6.8	6.2	6.4	6.4	7.2	6.2	6.1	6.3	6.2	5.7	5.6	6.1	5.6	6.7	6.1					
3873	7.4	7.1	7.3	6.8	6.9	7.0	7.2	7.2	6.7	6.3	7.0	7.1	6.5	7.0	6.2					
3874	NOT PREGNANT																			
3875	6.5	6.5	6.3	6.8	5.8	6.3	6.7	6.2	6.1	6.0	5.9	6.5	6.5	6.2						
3876	6.8	6.9	6.8	6.9	6.7	6.4	6.6	6.2	5.7	5.7	6.2	5.4	5.4	UU						
3877	7.3	6.0	6.7	7.2	6.1	6.3	5.7	7.0	7.0	6.8	6.5									
3878	6.3	6.0	6.8	7.0	4.9	6.7	6.5	6.8												
3879	6.8	7.2	7.5	6.7	6.8	7.1	7.3	6.8	6.5	6.6	6.5	6.3	6.7	6.7	6.9	5.8				
3880	6.7	6.3	6.5	6.1	6.6	6.3	6.1	6.2	6.2	6.7	6.1	6.2	5.2	6.1	5.4	6.6				
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION																			
3882	7.2	7.2	6.6	6.2	6.8	6.4	6.4	6.7												
3883	7.5	6.7	7.8	6.7	6.7	7.0	6.9	7.3	6.0	6.6	6.4	6.3	6.6	6.0	6.5					
3884	8.3	8.0	7.7	8.0	7.6	7.2	7.2	7.4	7.4	7.2	6.9	7.3								
3885	6.3	6.3	6.2	5.5	6.1	6.3	5.8	5.9	6.3	6.5	5.9	5.7	6.0	5.4	5.5					
3886	NOT PREGNANT																			
3887	6.2	6.2	6.9	5.9	6.1	5.5	6.2	6.0	5.8	5.8	5.8	6.1	5.7	5.8	6.2	6.1	6.1			
3888	7.4	7.0	7.4	6.6	7.1	7.2	MS	6.8	6.0	7.0	6.5	7.1	6.0	6.7	6.8	6.5				
3889	7.1	6.4	6.6	6.6	6.0	5.9	6.3	6.0	5.9	6.2	6.2	5.8	6.0	6.0	5.9	5.8	6.1			
3890	8.9	8.9	9.6	8.9	8.8	8.7														

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FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 4): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 1				
3891	6.2	6.4	6.5	6.6	5.9	6.2	6.5	6.3	6.0	5.6	5.8	6.1	5.1	6.1	6.4	6.2				
3892	7.6	8.4																		
3893	7.2	7.1	6.9	6.8	7.0	6.2	7.4	6.6	7.0	6.8	6.8	7.0	6.4							
3894	7.0	6.3	5.2	4.6	5.5	6.9	6.8	6.2	4.8	6.4	6.5	6.2	6.2	6.0	5.9					
3895	6.1	5.9	5.8	6.1	5.8	6.0	5.7	6.0	6.0	5.6	6.1	5.6	5.8							
3896	NOT PREGNANT																			
3897	6.3	6.4	6.4	6.3	6.6	7.3	7.1	7.2	6.3	6.7	6.5	6.6	6.2	6.3	6.5					
3898	NOT PREGNANT																			
3899	7.0	7.4	6.0	7.5	7.2	7.4	6.7	7.4	7.8	6.6	7.2	7.2	7.0	7.4						
3900	6.8	6.8	6.6	6.5	6.3	6.4	6.5	6.2	6.1	6.1	6.0	6.0	6.4							
3901	6.6	7.0	6.7	6.8	6.9	6.6	6.8	6.7	6.3	6.5	6.3	6.4	6.1	6.2	6.8					
3902	6.4	6.3	5.5	6.5	6.4	6.2	6.1	5.9	5.9	6.1	6.0	6.1	6.2	5.6	5.9	6.6	5.7			
3903	NOT PREGNANT																			
3904	7.1	7.6	7.6	7.8	7.0	7.3	6.8	7.8	7.6	7.8	7.6	7.0	6.6	6.7						
3905	7.0	7.2	MA																	
3906	7.1	7.4	6.4	7.2	7.1	6.8	6.2	6.8	6.4	6.9	6.5	6.1	6.8	6.6	6.6					
3907	6.6	7.1	5.9	6.7	7.1	6.7	6.7	6.5	6.4	6.9	6.7	4.4	6.3	6.5						
3908	NOT PREGNANT																			
3909	NOT PREGNANT																			
3910	6.6	6.7	7.1	6.8	6.2	6.5	6.5	6.0	6.0	5.9	6.3	6.1								
3911	7.7	8.1	8.0	7.4	6.7	7.3	7.2	7.5	7.4	7.2	7.4	6.2	6.7	7.8	7.3	7.0				
3912	7.7	6.3	8.1	6.5	7.7	7.8	4.9	6.8	7.2	7.1	6.0	7.7	6.4	7.8	6.8	6.9	6.9			
3913	5.5	5.7	5.4	5.4	5.2	5.9	5.9	5.6	5.0	5.2	5.6	5.2	5.5	5.4	5.2	FS				
3914	NOT PREGNANT																			
3915	6.7	6.1	6.6	6.5	6.6	6.3	6.5	6.1	6.1	6.3	5.5	5.9	6.4							
3916	6.5	6.4	6.7	6.5	6.8	6.6	6.1	6.3	6.1	5.8	5.9	5.9	6.1	6.0	6.0	5.7				
3917	7.1	7.3	7.2	5.4	6.3	7.2	7.2	6.9	7.0	6.6	5.5	6.7	6.7	5.8	5.8	6.4				
3918	6.3	6.1	6.2	5.9	6.1	6.1	6.2	6.0	MS	6.1	5.6	6.2	6.1	6.5	6.1	6.0	6.2	6.0	FS	
3919	7.9	7.0	8.2	7.6	7.8	7.6	7.6	7.7	7.0	6.6	7.2	7.1	6.5	6.7	6.7	6.7	7.6			
3920	6.8	6.9	6.9	6.3	6.9	6.7	7.0	6.9	7.3	6.4	6.3	6.9	6.8	6.7						

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 5): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY				POSTPARTUM DAY 4					
3801	6.4	8.5	7.5	7.8	8.9	8.1	8.5	8.1	9.6	8.1	7.9	7.7	7.8	8.2	7.5					
3802	14.7	14.0	14.3	14.4																
3803	8.4	9.8	8.1	8.5	9.7	9.7	8.7	8.9	9.0	8.0	8.8	8.4	8.3	8.3	8.3	8.7	6.9	7.6		
3804	7.5	8.6	8.8	9.4	8.9	9.4	9.0	9.9	9.0	9.0	8.5	9.0	8.7	8.6	8.6	8.2	8.0			
3805	8.1	8.7	8.7	9.0	8.3	8.1	9.0	8.6	7.8	8.4	7.0	8.9	7.4	8.1	8.4	7.4	7.5			
3806	8.8	8.7	10.2	9.2	9.2	8.3	9.2	9.1	8.9	7.2	MD 1	8.4	8.9	9.4	8.1	8.2	7.9	FD 1	US	UU
3807	10.6	9.7	8.4	11.2	12.0	8.7	10.1	8.9	10.8	11.4	10.6	9.1	9.3	8.3	10.5					
3808	8.4	8.2	8.4	9.5	8.8	8.6	7.1	8.2	7.5	7.2	8.8	8.3								
3809	9.5	8.3	8.2	9.1	9.3	8.5	9.1	8.3	9.2	8.4	7.2	8.4	7.7	7.9	9.2	8.2	7.9			
3810	9.9	10.2	9.6	9.1	8.9	9.2	8.8	MD 1	9.2	9.0	9.4	8.9	8.4	8.8	9.0	8.7				
3811	9.8	9.4	8.0	8.5	8.4	8.5	7.0	7.5	8.8	7.7	6.0	7.7	6.9	7.6	7.7	7.2	7.8			
3812	7.5	8.0	7.6	7.6	8.0	9.0	7.2	8.4	7.7	7.9	7.0	7.5	7.2	7.4	7.3	7.6	5.6	7.1	FD 4	FS
3813	9.6	9.8	10.4	9.8	10.8	10.4	10.4	9.8	9.9	9.3	10.2	9.8	10.3	10.0						
3814	11.0	11.9	12.1	9.2	12.2	11.7	11.7	11.9	11.1	11.6	10.4	10.2								
3815	10.6	10.2	10.4	10.8	9.2	10.2	10.2	9.6	10.4	MM 3	8.5	9.8	9.8	9.7	7.9	9.1	10.6			
3816	10.7	10.1	11.1	11.1	10.4	9.7	10.4	9.0	10.4	10.2	10.1	9.2	9.5	7.0	FD 1					
3817	NOT PREGNANT																			
3818	8.9	8.9	9.5	9.0	8.6	8.6	8.8	8.7	8.7	8.4	9.0	8.2	8.7	MD 4	8.2	7.5	8.9	8.0	FD 3	
3819	10.2	10.2	10.0	11.0	10.3	10.6	9.7	10.0	9.7	9.4	9.7	10.0	9.5							
3820	NOT PREGNANT																			
3821	8.0	8.4	7.7	8.0	7.9	7.4	7.7	8.1	8.3	6.9	7.5	6.9	7.4	6.8	7.8	6.9				
3822	10.0	10.7	11.7	9.6	9.5	11.5	11.0	10.7	11.5	9.7	10.0	11.3	11.6	9.9	FD 1					
3823	10.8	11.5	11.6	10.4	10.5	7.5	11.3	9.6	10.8	10.8	10.5									
3824	10.0	9.7	9.7	9.3	10.0	10.5	9.6	9.2	9.3	9.1	9.6	9.0	8.9							
3825	8.4	8.9	7.0	7.1	7.4	7.0	8.2	7.4	6.7	7.5	6.7	7.3	6.3	7.2	6.7	8.0	7.1			
3826	9.8	9.1	9.8	9.0	8.7	7.6	9.3	9.2	9.8	MS	8.4	8.4	10.0	8.3	8.9	9.8	8.9	FS		
3827	9.0	8.3	7.6	8.5	7.1	7.7	7.7	7.6	7.3	6.6	6.9	7.3	7.7	7.2	FM 2					
3828	5.6	5.3	5.9	5.7	5.5	4.7	5.6	5.2	5.4	6.0	5.6	5.2	4.8	5.0						
3829	9.8	11.0	10.2	9.3	9.9	10.2	8.6	9.9	9.7	10.6	9.9									
3830	6.8	7.0	7.4	7.4	7.9	MD 4	5.9	6.9	7.2	6.7	8.1	7.6	6.7							

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 6): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 4				
3831	9.6	10.5	9.9	10.5	10.5	9.5	10.5	9.9	10.6	9.0										
3832	NOT PREGNANT																			
3833	9.5	7.3	10.3	10.9	9.8	9.8	MM 2	MS	9.3	8.4	8.9	10.0	9.7	9.3	9.5	FS				
3834	9.5	9.0	8.9	9.2	8.8	8.4	9.3	9.9	8.5	7.6	9.0	8.4	8.8	7.9	7.5					
3835	NOT PREGNANT																			
3836	NOT PREGNANT																			
3837	9.4	10.2	9.7	9.2	9.2	9.7	8.8	8.6	9.4	6.7										
3838	9.0	9.4	10.1	10.4	10.0	10.1	9.7	9.1	9.7	9.5	9.2	9.7	9.6	9.6						
3839	NOT PREGNANT																			
3840	NOT PREGNANT																			
3841	NOT PREGNANT																			
3842	8.2	6.8	8.4	8.1	8.5	9.2	8.0	8.9	8.9	8.0	8.4	8.4	8.8	8.1	8.4	8.0				
3843	8.0	7.4	7.5	7.6	7.8	8.7	6.7	8.2	7.9	8.6	7.5	7.5	6.7	6.5	6.6	8.6	7.4	6.8		
3844	NOT PREGNANT																			
3845	9.4	9.3	8.9	9.5	8.6	9.1	9.6	9.7	8.4	6.4	8.7	MM 4	8.4	7.4	8.4	8.1	8.6	7.4	5.0	8.2
3846	9.3	9.4	8.8	9.0	8.8	8.8	9.4	9.3	8.7	7.8	7.8	8.8	8.4	7.5	8.5	8.8	8.4	FM 3		
3847	12.5	12.2	11.2	11.2	10.9															
3848	8.0	8.3	7.5	8.4	8.4	7.8	8.8	8.2	8.4	9.1	8.4	8.5	8.3	8.6	5.8	7.7	7.6			
3849	9.6	10.3	10.3	9.4	11.1	10.0	10.6	10.8	9.5	9.9	7.8	10.1								
3850	10.0	9.2	9.9	8.5	8.8	10.4	10.0	9.9	8.5	9.3	8.6	9.7	8.5	8.9	8.1	9.3				
3851	9.5	8.7	7.9	8.4	7.3	9.7	9.0	8.6	9.0	7.8	8.0	8.4	9.1	8.2	8.6	7.1	9.5	7.9		
3852	9.1	9.3	9.4	8.9	9.3	9.1	9.2	8.8	9.5	8.5	7.9	8.9	8.7	8.8	8.6	8.5				
3853	NOT PREGNANT																			
3854	7.2	7.5	6.9	7.4	5.7	7.7	8.0	MM 2	MS	MS	7.6	8.0	8.3	7.6	3.4	FD 1				
3855	8.0	8.4	8.9	9.6	9.2	9.9	7.6	9.3	9.1	8.7	7.6	8.5	7.1	8.5	7.8	7.7	7.3	8.7		
3856	11.0	12.9	11.4	11.8	11.2	12.3	12.6	9.7	10.9	12.4	12.0									
3857	8.8	8.7	9.8	8.8	8.8	8.3	6.3	9.0	8.7	9.4	7.7	8.3	8.4	8.8	8.3	8.8	8.9	7.5	7.4	
3858	7.2	6.4	6.2	6.4	7.2	MD 1	5.8	6.1	6.4	6.4	5.6	6.2	6.1	5.6	5.3	4.3				
3859	8.8	8.6	8.5	8.8	8.5	9.4	8.2	8.6	8.6	8.9	7.8	9.2	9.1	9.2	8.7					
3860	10.3	12.0	12.2	11.7	11.0	11.4	12.2	10.7	10.9	11.7	9.9	11.5								

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 7): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY				POSTPARTUM DAY 4					
3861	8.9	9.2	9.4	8.7	8.9	9.5	9.3	8.0	8.7	9.2	8.4	8.2	9.2	7.2	9.3	8.4				
3862	9.6	11.0	10.3	9.8	11.0	10.1	9.0	8.7	9.0	9.0	11.3	7.9	9.8	8.6	10.1	9.0				
3863	9.7	8.8	7.9	8.7	8.9	9.0	8.2	8.5	8.7	8.8	8.2	7.3	8.8	7.6	8.3					
3864	10.3	9.1	9.7	9.1	10.2	MM 3	8.4	8.9	8.2	8.8	9.6	9.1	9.1	8.6	8.6					
3865	6.8	9.2	9.4	7.9	8.5	7.8	8.6	9.1	9.2	8.7	7.8	8.5	9.1	8.0	7.6	8.4	9.2	8.7	9.2	
3866	11.2	12.7	11.4	12.9	11.6	10.4	11.3	11.9	11.4	10.9	10.7									
3867	8.9	9.3	9.2	8.9	9.3	9.1	7.5	8.2	8.3	8.4	7.9	7.6	9.6	8.8	7.4	8.0	9.4	9.3		
3868	8.8	9.2	8.0	9.2	8.6	8.4	8.4	8.6	8.3	8.8										
3869	9.0	9.8	8.6	9.1	8.9	9.1	8.7	8.8	10.4	9.6	7.7	7.9	8.4	8.4	8.9	9.0	9.0			
3870	NOT PREGNANT																			
3871	NOT PREGNANT																			
3872	9.6	8.6	9.4	9.1	8.1	8.8	7.5	8.0	7.3	8.9	7.1	8.2	7.0	8.0	8.2					
3873	9.8	8.6	9.2	9.1	9.7	9.1	9.1	9.4	8.0	9.1	9.4	8.5	7.9	8.1	8.5					
3874	NOT PREGNANT																			
3875	7.5	8.0	8.2	7.8	6.7	7.8	8.0	7.6	8.0	7.6	7.9	8.8	FD 4	FD 2						
3876	9.6	9.4	9.4	9.6	9.1	9.3	8.8	7.4	9.4	8.3	7.8	8.9	8.8	UU						
3877	8.4	10.9	10.3	9.2	9.3	9.1	11.4	10.3	7.5	10.5	10.7									
3878	9.6	11.4	11.3	11.7	10.3	10.9	MM 2	11.6												
3879	9.5	9.1	10.1	9.7	10.2	9.8	9.7	9.1	10.5	9.3	9.3	9.3	8.6	9.4	9.4	7.9				
3880	8.9	9.5	9.1	9.7	10.5	9.7	10.3	9.5	9.7	8.9	9.4	8.4	9.9	9.6	8.8	7.3				
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION																			
3882	10.8	10.8	9.4	9.7	9.9	9.8	9.9	9.2												
3883	9.6	9.3	8.7	9.2	10.0	9.3	8.3	9.6	8.1	8.7	8.6	8.8	7.8	9.0	8.6					
3884	11.8	11.4	11.5	11.9	12.6	11.2	11.0	11.0	10.6	10.4	10.5	11.5								
3885	9.0	8.4	7.8	7.4	6.9	7.9	7.7	7.4	7.7	7.9	6.5	7.9	8.0	7.0	7.7					
3886	NOT PREGNANT																			
3887	8.9	8.7	8.6	10.2	9.0	8.4	8.5	7.8	7.5	9.0	8.7	7.9	8.3	8.2	7.9	8.1	8.5			
3888	8.2	8.7	9.6	9.1	8.6	8.7	MS	8.8	7.9	7.1	8.5	7.5	8.7	8.1	8.0	8.0				
3889	7.9	8.7	9.1	8.7	8.7	8.0	7.9	8.0	7.8	7.8	8.6	8.0	8.1	8.0	8.2	7.9	7.0			
3890	13.9	14.1	15.2	14.0	13.5	13.9														

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 8): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY				POSTPARTUM DAY 4					
3891	7.4	8.5	8.2	7.8	8.4	8.4	8.4	8.8	7.3	8.9	7.2	7.7	8.5	8.4	7.5	7.9				
3892	10.9	9.6																		
3893	9.6	9.4	9.4	8.8	8.6	9.6	9.2	8.6	9.9	9.8	9.6	8.3	9.0							
3894	8.9	9.5	9.9	10.0	MM 4	MM 4	MD 2	8.5	9.4	8.0	7.7	9.1	8.4	8.7	FD 2					
3895	8.2	7.7	7.9	7.6	7.9	8.1	MM 3	7.6	6.9	8.3	7.9	7.2	8.3							
3896	NOT PREGNANT																			
3897	8.1	9.5	8.7	9.5	8.9	8.7	8.7	9.2	10.0	9.3	9.5	8.7	8.2	8.8	8.6					
3898	NOT PREGNANT																			
3899	10.9	11.1	10.8	10.0	10.7	8.4	9.5	9.6	10.7	10.2	9.4	9.5	9.6	10.2						
3900	8.1	9.6	9.3	10.0	10.2	10.5	9.2	10.7	9.2	9.3	10.0	9.0	FD 2							
3901	8.9	8.5	8.7	8.4	8.7	8.0	9.0	8.0	8.6	8.6	8.8	8.6	8.8	8.8	8.1					
3902	8.9	8.8	9.2	9.0	9.2	7.7	8.1	8.5	7.9	8.6	7.4	9.3	8.6	8.5	8.1	9.0	8.1			
3903	NOT PREGNANT																			
3904	10.1	10.6	10.7	11.1	10.6	10.2	10.0	9.4	10.1	9.9	8.7	10.6	10.0	10.5						
3905	10.9	10.9	11.5																	
3906	9.4	8.7	9.7	9.2	MD 4	9.0	7.6	9.1	9.2	8.9	7.6	8.2	8.2	8.3	8.2					
3907	10.2	9.6	8.8	8.0	9.8	9.2	9.6	8.5	9.2	8.9	6.8	8.3	9.6	9.6						
3908	NOT PREGNANT																			
3909	NOT PREGNANT																			
3910	8.0	9.4	9.9	9.4	9.4	10.3	9.0	8.3	8.4	9.1	8.3	8.6								
3911	9.7	11.3	9.8	10.4	9.8	10.5	10.2	10.7	10.3	9.6	9.9	9.8	10.4	8.4	8.3	10.4				
3912	10.3	10.0	8.8	8.6	10.5	6.5	8.6	10.4	9.8	9.3	9.6	8.8	9.4	9.0	9.5	9.1	7.9			
3913	8.2	7.8	8.2	8.8	8.4	7.5	7.1	8.2	7.5	7.7	6.9	7.7	7.8	7.7	8.3	FS				
3914	NOT PREGNANT																			
3915	8.7	8.7	7.7	9.2	7.8	8.4	8.3	8.6	7.2	8.2	8.0	8.3	7.4							
3916	9.1	8.6	9.7	9.7	9.6	9.9	8.1	8.2	8.6	9.2	9.2	8.7	8.9	8.0	8.6	8.8				
3917	5.8	10.0	10.3	9.7	9.9	7.6	9.3	7.4	9.2	9.3	9.3	7.7	8.3	9.9	9.6	6.3				
3918	8.7	8.6	8.7	8.5	7.7	8.6	8.1	8.2	MS	8.0	8.8	8.6	9.0	7.4	8.6	8.6	8.5	7.8	FS	
3919	11.3	10.4	10.3	10.6	10.8	9.4	11.6	10.5	9.7	9.5	10.2	9.4	9.2	10.5	8.6	10.9	8.6			
3920	10.7	10.8	11.4	11.1	9.6	11.0	10.6	10.3	11.3	10.6	10.7	10.1	10.6	9.7						

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TABLE C45 (PAGE 9): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY				POSTPARTUM DAY 7					
3801	12.0	12.1	13.0	12.3	13.6	12.4	9.3	MD 6	12.8	14.7	11.6	12.5	12.5	11.6	12.1					
3802	22.6	22.0	22.4	21.4																
3803	11.5	11.9	12.7	11.9	13.8	14.2	11.1	11.2	12.4	12.0	11.9	12.2	11.6	11.5	11.2	12.3	10.2	8.4		
3804	12.7	11.6	13.4	12.6	12.9	11.9	13.0	10.0	11.0	11.4	12.1	10.8	12.4	12.1	11.2	12.5	10.5			
3805	11.6	12.0	12.3	12.4	11.8	12.0	10.5	10.6	11.8	10.2	13.0	12.8	10.9	12.4	11.3	9.7	11.8			
3806	12.4	13.0	12.5	11.6	12.5	13.8	13.6	12.6	13.5	11.2	MD 1	10.3	11.6	12.6	13.8	12.0	FM 7	FD 1	US	UU
3807	13.9	16.8	12.4	12.8	15.0	17.4	15.8	12.7	14.1	16.5	16.5	15.5	14.9	13.4	11.9					
3808	12.0	12.2	13.1	14.1	12.0	11.9	12.0	12.7	12.0	12.3	10.5	10.6								
3809	13.6	11.8	13.6	13.0	11.2	11.6	11.9	13.0	12.3	12.0	12.7	11.4	12.1	11.4	11.5	10.6	11.2			
3810	13.4	14.3	14.5	12.3	13.0	13.3	12.3	MD 1	13.8	12.6	13.8	12.1	12.6	13.7	12.8	12.2				
3811	12.1	12.1	12.6	12.7	11.5	10.0	12.4	9.8	11.4	10.1	10.1	7.2	9.8	10.4	10.2	8.5	10.2			
3812	10.3	9.8	10.0	10.3	9.6	11.3	10.2	11.5	9.9	10.2	11.7	10.7	10.9	8.9	9.3	9.6	10.4	FD 5	FD 4	FS
3813	13.7	14.0	14.7	14.9	13.8	14.4	15.0	12.9	13.9	13.3	14.4	14.7	13.1	14.7						
3814	17.1	13.1	15.3	16.9	17.7	16.4	16.1	16.4	16.6	14.0	14.6	16.1								
3815	13.9	14.6	12.4	14.1	14.8	15.0	13.6	14.1	14.8	MM 3	12.8	15.3	12.8	13.9	12.6	10.9	11.4			
3816	14.9	14.0	14.1	15.2	14.7	14.2	14.8	13.6	13.3	13.7	13.6	8.9	13.6	13.6	FD 1					
3817	NOT PREGNANT																			
3818	13.7	13.2	12.8	12.2	13.0	13.4	12.9	14.2	12.2	13.1	12.4	12.6	12.2	MD 4	13.0	11.3	12.4	11.4	FD 3	
3819	16.0	14.6	15.7	14.5	15.1	15.4	14.8	14.3	14.3	13.9	13.8	14.6	14.1							
3820	NOT PREGNANT																			
3821	12.1	12.5	12.5	12.2	12.7	12.7	12.5	12.0	12.2	9.9	10.9	11.4	9.3	10.4	10.8	10.3				
3822	14.0	16.3	15.7	16.3	14.8	15.2	15.9	11.9	14.2	16.4	16.7	13.3	13.1	11.2	FD 1					
3823	14.7	16.1	15.2	11.2	15.8	14.8	15.6	15.1	13.9	15.0	15.6									
3824	12.6	10.8	11.5	12.0	11.1	10.7	11.0	10.8	11.5	12.5	10.1	10.8	11.1							
3825	9.8	11.4	12.2	10.1	9.7	10.0	11.0	9.1	8.9	10.9	9.8	10.2	10.1	11.2	10.6	8.9	11.2			
3826	13.1	12.4	12.0	10.3	13.0	11.3	12.2	11.7	12.8	MS	10.9	10.6	11.3	13.6	12.0	12.6	11.8	FS		
3827	9.6	11.2	10.2	9.4	8.2	10.5	11.4	11.1	9.3	9.5	8.7	9.0	9.8	7.9	FM 2					
3828	5.4	5.1	5.5	6.2	6.1	6.5	MM 6	MD 6	5.7	6.4	4.8	6.7	5.0	FM 6						
3829	14.8	13.7	15.8	12.3	14.7	15.1	14.3	13.9	14.6	14.9	12.8									
3830	11.0	9.8	13.1	8.3	MD 5	MD 4	8.4	11.4	11.4	9.5	10.0	FM 5	FD 5							

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TABLE C45 (PAGE 10): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 7				
3831	13.9	13.0	15.0	15.1	12.3	13.3	15.5	13.0	14.2	14.9										
3832	NOT PREGNANT																			
3833	14.7	15.3	16.5	16.0	15.6	11.2	MM 2	MS	13.7	14.9	13.9	16.1	14.4	14.3	15.4	FS				
3834	14.4	14.1	14.3	13.9	14.0	14.0	14.3	14.1	12.8	11.4	13.2	11.5	13.9	14.2	11.7					
3835	NOT PREGNANT																			
3836	NOT PREGNANT																			
3837	14.8	15.3	14.5	15.3	14.7	16.6	14.0	15.1	10.5	13.4										
3838	13.8	14.8	14.9	15.1	15.0	14.1	14.5	13.8	13.1	13.8	13.0	13.9	13.0	13.8						
3839	NOT PREGNANT																			
3840	NOT PREGNANT																			
3841	NOT PREGNANT																			
3842	11.1	9.5	12.3	11.6	12.0	10.7	11.7	11.8	10.7	12.2	12.2	12.1	11.1	11.8	11.7	12.1				
3843	12.4	10.8	11.3	12.6	12.4	10.9	9.2	7.4	11.4	9.1	11.6	11.3	MM 6	MM 6	10.7	10.5	9.4	12.3		
3844	NOT PREGNANT																			
3845	11.7	10.5	7.8	12.7	12.6	12.0	12.3	13.0	10.8	12.3	12.0	MM 4	10.2	10.4	10.6	10.1	10.7	9.9	10.4	FD 7
3846	13.7	14.8	13.5	14.3	13.4	13.8	13.8	14.4	12.1	12.5	10.1	13.8	12.2	12.3	12.6	12.4	10.6	FM 3		
3847	17.3	18.2	17.0	16.9	17.1															
3848	12.3	11.8	13.2	12.3	10.9	13.0	12.0	12.2	11.5	12.8	11.9	6.9	13.2	12.4	13.1	12.4	11.5			
3849	14.5	15.0	15.2	15.4	13.8	15.0	14.2	14.5	14.1	11.3	14.0	13.7								
3850	14.6	13.8	13.2	14.2	14.9	13.4	14.3	14.2	13.3	11.5	13.2	14.1	12.3	13.8	11.3	13.8				
3851	13.4	10.3	10.0	12.7	12.4	11.3	MD 6	13.5	11.0	12.3	13.1	12.0	13.6	11.1	12.2	10.8	11.8	9.2		
3852	13.8	12.2	13.4	13.2	13.7	13.3	12.9	13.0	11.5	12.4	13.2	12.2	11.7	11.1	12.8	13.8				
3853	NOT PREGNANT																			
3854	11.3	10.0	9.7	10.2	8.1	9.8	10.8	MM 2	MS	MS	12.4	11.1	10.3	10.5	FM 5	FD 1				
3855	14.7	13.1	13.7	12.8	15.6	12.1	14.0	14.4	11.0	13.6	12.1	11.2	11.9	12.9	10.7	10.8	9.7	12.9		
3856	19.4	17.6	17.7	18.2	15.4	18.0	17.0	19.0	19.1	18.7	16.2									
3857	11.7	13.4	11.2	11.5	11.9	11.8	MM 5	10.8	13.3	12.0	11.2	11.9	11.2	12.6	11.2	11.6	9.5	10.4	FD 6	
3858	11.1	10.1	10.1	10.5	9.6	MD 1	9.8	8.9	9.4	10.2	8.0	8.5	9.0	8.4	9.6	FM 7				
3859	13.7	12.8	12.3	13.2	10.5	11.4	13.6	9.9	12.8	12.0	13.0	11.3	12.4	13.2	12.6					
3860	14.7	17.3	16.4	16.8	16.7	15.3	17.4	15.4	15.6	15.2	14.7	16.5								

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FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 11): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY				POSTPARTUM DAY 7					
3861	13.1	12.7	13.2	13.0	12.6	11.8	12.3	13.2	10.8	11.4	12.0	13.6	12.2	10.0	11.5	11.5				
3862	12.2	14.0	14.4	13.6	15.0	15.3	12.6	11.2	11.1	11.3	14.2	11.8	12.9	11.8	12.0	FD 5				
3863	11.0	12.9	11.6	12.9	12.9	12.5	13.0	12.7	13.3	12.4	11.5	13.4	12.3	12.0	10.6					
3864	13.8	13.8	14.1	13.8	14.7	MM 3	13.7	12.9	14.4	11.9	13.2	13.1	12.5	11.6	13.7					
3865	11.1	13.1	12.7	12.4	9.8	8.9	10.2	13.5	12.0	11.8	12.4	12.1	12.8	11.8	13.1	10.1	11.2	11.1	8.6	
3866	15.7	16.6	17.9	17.1	18.3	16.1	16.5	15.0	16.4	15.2	15.8									
3867	12.3	11.9	13.4	8.7	12.7	12.5	13.5	13.2	10.0	9.6	9.7	11.8	12.0	10.4	13.3	10.4	11.7	13.2		
3868	13.4	12.0	14.1	14.0	12.9	13.7	12.8	12.6	12.6	13.2										
3869	11.2	11.8	12.5	14.1	11.5	11.9	12.2	13.7	12.6	12.8	9.2	13.4	10.8	12.6	12.1	10.8	11.8			
3870	NOT PREGNANT																			
3871	NOT PREGNANT																			
3872	11.9	13.0	14.1	11.7	14.0	12.4	11.2	12.4	10.3	12.8	11.9	13.2	10.6	11.4	11.2					
3873	11.7	12.2	11.7	12.0	13.1	12.7	12.3	12.1	12.3	12.4	11.1	11.8	11.5	11.5	12.8					
3874	NOT PREGNANT																			
3875	10.2	11.6	12.5	11.0	11.9	12.1	11.4	10.6	11.1	11.9	11.3	11.2	FD 4	FD 2						
3876	14.3	13.8	14.0	14.2	14.4	13.5	14.5	13.2	11.8	13.0	13.7	13.0	11.0	UU						
3877	13.4	17.8	13.6	16.2	14.3	16.3	16.7	17.3	11.2	14.6	17.5									
3878	18.5	18.4	16.8	15.5	17.5	17.7	MM 2	18.5												
3879	13.9	14.8	13.4	14.5	15.0	14.9	13.4	14.0	13.5	13.9	13.5	12.7	13.9	11.3	12.7	FM 7				
3880	13.7	14.4	13.4	14.5	13.8	14.2	12.9	13.7	15.4	13.7	13.4	10.2	13.5	14.2	13.0	13.6				
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION																			
3882	14.7	12.8	15.2	13.8	13.3	13.5	13.9	12.6												
3883	13.0	14.4	11.4	13.6	12.8	12.6	13.5	13.8	12.7	12.4	11.3	12.6	12.2	12.3	11.6					
3884	17.7	16.9	18.7	17.7	17.3	16.8	15.8	17.3	17.4	15.7	16.3	16.4								
3885	11.5	11.8	12.7	13.3	12.3	12.0	13.0	9.7	11.7	11.8	12.0	12.0	11.4	9.6	7.5					
3886	NOT PREGNANT																			
3887	12.6	12.5	11.3	12.2	12.2	11.3	10.7	10.6	11.6	11.0	10.3	10.1	10.6	11.4	11.9	10.0	10.8			
3888	11.5	13.8	12.7	11.3	12.5	11.2	MS	12.6	10.1	11.2	10.0	11.3	11.4	12.1	10.8	10.9				
3889	12.0	12.5	11.3	11.2	10.5	11.9	10.7	10.8	12.5	11.6	10.9	11.8	10.3	11.6	10.6	11.5	10.0			
3890	21.4	22.9	21.5	20.8	21.3	21.2														

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 12): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 7				
3891	11.6	12.3	11.1	11.5	10.6	10.4	10.2	12.3	11.2	13.2	9.3	11.9	13.2	11.8	10.2	11.9				
3892	15.1	13.8																		
3893	13.1	13.1	13.6	11.4	11.5	12.9	10.6	13.2	10.7	13.4	13.6	12.4	12.1							
3894	14.7	14.2	15.2	13.8	MM 4	MM 4	MD 2	12.3	11.6	13.0	14.0	13.5	13.2	14.6	FD 2					
3895	11.9	11.9	11.4	11.7	11.8	11.9	MM 3	11.5	10.1	11.4	11.9	12.7	12.6							
3896	NOT PREGNANT																			
3897	13.4	13.9	9.0	12.1	11.9	12.0	12.5	12.1	13.2	12.0	11.8	11.0	11.8	11.8	10.9					
3898	NOT PREGNANT																			
3899	16.0	15.7	15.5	13.6	15.9	15.3	13.0	16.2	11.4	14.3	15.4	14.0	14.7	15.4						
3900	14.5	16.2	13.9	15.2	15.5	13.6	13.9	14.3	14.8	14.9	14.7	13.8	FD 2							
3901	12.8	13.9	13.5	11.9	13.9	14.1	13.4	14.7	13.3	14.8	12.0	13.4	13.2	13.2	13.6					
3902	13.1	12.0	12.6	12.8	13.2	10.9	11.8	9.9	12.9	12.8	12.5	11.7	11.1	12.2	11.2	11.7	11.7			
3903	NOT PREGNANT																			
3904	13.8	16.2	14.3	14.9	15.8	13.6	14.7	13.1	13.7	13.9	14.3	15.1	12.9	14.2						
3905	16.6	17.4	15.4																	
3906	14.9	14.1	14.6	15.0	MD 4	14.4	12.7	13.2	13.3	10.8	13.4	10.6	14.2	12.9	14.8					
3907	14.4	14.1	14.8	12.9	13.9	12.3	13.8	14.0	13.9	12.1	13.6	11.9	13.7	9.2						
3908	NOT PREGNANT																			
3909	NOT PREGNANT																			
3910	13.2	12.9	14.2	13.6	12.3	10.2	14.8	12.0	12.2	12.1	11.7	11.9								
3911	15.2	16.0	15.0	15.0	15.2	14.2	14.1	14.2	14.7	11.9	14.4	12.9	15.5	12.6	14.1	14.4				
3912	16.2	12.5	14.7	14.6	12.5	15.4	12.8	MM 7	13.9	14.3	13.8	12.6	14.6	10.8	14.0	13.7	14.4			
3913	12.8	10.3	10.5	12.3	11.8	11.9	11.8	11.7	11.0	10.2	12.2	11.0	11.3	10.3	11.6	FS				
3914	NOT PREGNANT																			
3915	11.8	12.4	11.9	13.0	11.8	12.0	11.6	12.1	10.6	11.2	11.8	12.1	10.6							
3916	13.9	13.8	14.6	13.6	14.2	14.4	12.8	14.2	12.2	12.0	13.8	12.0	12.2	13.7	12.5	12.0				
3917	14.4	14.9	14.1	14.3	10.7	6.1	13.7	11.4	13.6	12.7	12.7	7.7	13.3	14.1	11.1	9.4				
3918	11.7	12.3	11.8	10.9	12.5	12.1	12.0	11.8	MS	13.2	11.3	12.1	12.0	13.2	11.6	9.0	13.0	10.9	FS	
3919	15.5	14.9	15.5	16.8	16.3	14.9	12.8	15.8	13.0	14.1	16.2	14.0	14.4	13.4	13.9	12.9	FD 7			
3920	16.0	14.2	17.4	16.8	15.5	16.0	16.9	16.4	16.6	16.0	14.7	16.6	15.3	16.5						

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TABLE C45 (PAGE 13): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY				POSTPARTUM DAY 14					
3801	25.8	24.0	24.3	18.6	26.0	24.3	20.9	MD 6	25.0	22.8	23.7	23.0	23.3	26.7	21.3					
3802	44.9	42.4	45.2	40.2																
3803	23.4	25.7	23.0	22.7	21.5	23.3	23.8	22.8	23.4	22.6	21.9	22.2	21.9	21.2	23.2	22.8	23.2	FM 8		
3804	27.6	26.6	25.2	25.4	17.3	26.2	21.2	27.0	22.0	25.5	22.8	23.2	19.9	21.0	19.3	20.2	20.4			
3805	22.1	18.8	23.1	22.7	20.0	21.4	22.7	18.3	10.8	20.4	20.1	22.2	22.5	18.4	22.9	16.7	19.2			
3806	26.8	26.9	26.2	27.7	29.3	25.9	26.6	29.6	28.9	27.4	MD 1	27.6	24.9	25.8	27.8	23.7	FM 7	FD 1	US	UU
3807	28.7	25.9	28.4	27.0	30.3	24.1	26.6	27.1	28.1	29.4	27.4	27.1	22.2	27.5	27.2					
3808	26.0	28.8	29.1	27.7	27.1	27.2	26.1	27.4	26.4	24.5	26.8	25.4								
3809	26.7	24.2	25.0	24.8	22.7	22.4	21.9	22.6	21.9	21.5	22.1	22.6	24.8	22.4	19.0	21.1	23.9			
3810	22.6	24.3	24.2	24.3	24.9	22.3	23.0	MD 1	21.8	21.1	24.4	25.7	23.4	24.0	21.1	22.4				
3811	20.5	22.6	21.6	17.2	22.5	22.0	17.0	23.1	19.3	20.7	18.2	19.3	18.5	15.9	16.2	16.6	FM10			
3812	25.0	19.3	20.0	21.6	22.0	20.8	20.9	25.3	21.1	25.0	19.6	20.4	23.5	21.8	20.4	21.3	22.0	FD 5	FD 4	FS
3813	24.5	25.9	27.9	25.3	26.4	26.2	25.8	26.4	26.6	22.5	28.4	26.9	26.2	28.1						
3814	29.1	25.7	30.8	27.0	31.6	30.1	25.9	28.0	26.1	30.0	29.2	28.6								
3815	25.6	24.3	23.3	26.9	25.4	25.7	26.5	22.7	25.9	MM 3	24.5	24.4	22.2	20.0	20.3	18.4	26.7			
3816	27.0	25.9	27.6	23.3	27.4	27.0	26.7	26.5	27.8	25.2	24.7	19.3	24.2	24.4	FD 1					
3817	NOT PREGNANT																			
3818	22.1	23.8	23.8	23.7	23.3	22.1	23.0	22.7	21.9	23.4	23.7	24.0	21.6	MD 4	21.6	23.3	20.7	20.4	FD 3	
3819	29.5	28.8	29.1	29.5	27.6	25.6	28.6	26.4	27.3	27.8	27.1	26.0	28.0							
3820	NOT PREGNANT																			
3821	24.8	24.4	23.9	25.3	24.0	21.8	21.1	21.8	24.4	23.2	19.3	21.4	18.1	18.3	23.2	20.3				
3822	29.7	24.1	25.1	26.0	27.1	27.1	27.5	28.2	24.5	28.5	27.9	21.9	22.1	23.5	FD 1					
3823	25.2	27.7	25.6	29.1	23.7	26.1	25.0	26.5	29.6	25.9	25.4									
3824	24.9	20.9	23.0	22.3	23.5	21.8	23.2	22.4	22.0	22.2	23.7	22.2	20.8							
3825	20.4	22.0	18.3	21.7	19.2	22.0	22.9	20.3	18.8	19.8	19.3	20.0	20.0	20.1	20.8	19.4	FM 8			
3826	16.1	20.9	23.2	22.4	21.0	21.6	20.5	21.0	23.8	MS	20.8	21.8	21.4	20.6	20.6	20.9	19.8	FS		
3827	21.4	23.3	21.4	24.1	22.7	17.6	21.7	21.2	21.6	23.3	22.2	18.6	21.0	20.7	FM 2					
3828	12.6	12.9	13.2	15.3	17.9	17.4	MM 6	MD 6	12.9	15.8	20.8	18.2	FM10	FM 6						
3829	23.1	26.1	26.9	27.5	25.7	27.0	26.1	27.0	27.5	26.4	23.4									
3830	26.4	23.2	22.8	30.4	MD 5	MD 4	28.9	28.9	23.2	23.8	FD 9	FM 5	FD 5							

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TABLE C45 (PAGE 14): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 14				
3831	30.6	28.5	30.6	30.7	28.0	29.6	27.2	31.3	29.8	30.9										
3832	NOT PREGNANT																			
3833	29.4	29.7	30.6	30.4	28.2	25.6	MM 2	MS	28.2	28.5	29.6	30.2	27.9	27.7	27.8	FS				
3834	28.4	26.9	26.0	26.8	26.1	26.0	27.1	26.6	28.8	23.1	25.2	23.3	27.7	25.5	27.9					
3835	NOT PREGNANT																			
3836	NOT PREGNANT																			
3837	31.9	30.0	32.4	31.8	32.1	31.8	24.8	32.4	30.2	29.1										
3838	26.5	26.4	25.8	26.4	29.4	24.1	25.8	24.5	25.5	24.6	26.8	24.0	25.2	23.9						
3839	NOT PREGNANT																			
3840	NOT PREGNANT																			
3841	NOT PREGNANT																			
3842	21.3	22.8	21.5	23.4	23.8	20.4	14.5	22.1	22.7	22.9	23.2	21.7	23.3	20.4	20.8	23.7				
3843	24.0	22.7	22.2	24.7	25.5	25.2	19.6	18.0	25.9	24.7	21.6	MM 9	MM 6	MM 6	25.5	20.2	23.0	18.7		
3844	NOT PREGNANT																			
3845	21.4	21.7	23.8	20.1	24.8	26.5	24.4	25.8	24.4	21.5	MD 9	MM 4	18.5	21.8	21.5	19.5	20.8	19.2	20.8	FD 7
3846	25.1	27.2	26.6	26.8	20.0	27.1	28.4	27.6	20.5	19.2	25.7	23.8	24.4	16.6	24.5	20.1	22.0	FM 3		
3847	35.5	37.2	37.6	34.9	35.9															
3848	25.9	27.7	14.7	24.4	24.4	24.6	26.0	24.6	24.0	25.6	25.0	24.0	25.6	23.8	25.0	26.6	7.6			
3849	28.0	26.8	27.0	29.7	27.6	27.8	26.6	27.4	22.4	27.0	26.6	27.3								
3850	26.6	28.1	28.7	26.4	28.7	25.5	26.5	28.6	24.2	27.7	20.8	23.0	28.4	26.2	27.7	FD12				
3851	26.3	20.2	25.1	19.6	23.1	MD10	MD 6	24.4	24.3	21.1	24.9	24.0	19.3	28.0	25.9	24.3	25.9	23.0		
3852	25.4	22.3	26.6	22.2	24.1	23.8	25.8	26.3	23.2	25.6	21.8	23.9	21.9	21.9	23.6	23.3				
3853	NOT PREGNANT																			
3854	26.7	24.4	21.7	26.0	24.0	23.1	24.1	MM 2	MS	MS	25.8	27.1	24.9	25.4	FM 5	FD 1				
3855	28.0	24.1	22.1	24.5	27.1	27.7	26.1	27.7	20.9	18.6	24.1	21.0	19.0	24.3	24.8	21.5	24.0	13.5		
3856	33.9	36.3	34.6	33.9	36.0	35.1	31.6	35.6	32.6	35.5	35.0									
3857	20.9	23.8	23.4	21.9	21.0	23.0	MM 5	22.9	25.6	24.3	20.0	21.7	23.1	21.0	16.0	25.3	23.8	FM 8	FD 6	
3858	21.8	23.0	24.5	23.1	23.0	MD 1	23.2	23.8	21.9	23.0	20.0	21.4	19.4	20.8	FM 8	FM 7				
3859	25.3	23.3	19.3	20.8	26.7	22.8	24.0	25.8	25.2	24.7	26.3	18.0	26.0	24.8	26.6					
3860	33.0	30.1	30.0	31.6	31.7	31.6	29.5	27.3	31.1	30.5	29.4	28.8								

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 15): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY					POSTPARTUM DAY 14				
3861	22.7	23.6	25.4	24.5	22.7	23.1	24.8	21.5	24.4	21.5	24.1	21.6	21.8	19.1	21.8	22.4				
3862	21.5	25.4	26.9	24.5	27.9	26.2	17.6	23.2	22.8	19.9	25.0	24.2	24.1	20.1	22.2	FD 5				
3863	22.4	26.1	25.1	24.1	24.4	25.3	23.0	22.6	23.2	22.6	24.4	22.4	22.4	23.4	23.2					
3864	28.4	26.6	26.6	27.0	28.0	MM 3	24.4	24.2	25.2	25.5	27.1	24.6	25.2	26.6	24.8					
3865	24.4	25.0	23.1	17.0	14.9	24.8	19.5	18.1	22.4	21.3	18.1	20.8	21.6	17.3	17.3	20.3	22.8	24.6	FM 8	
3866	34.9	32.0	33.0	34.0	34.7	32.1	30.4	32.5	32.5	32.8	30.8									
3867	28.0	24.6	24.4	28.6	25.7	19.1	23.7	24.1	19.4	26.4	20.0	23.7	25.4	23.3	24.3	24.4	19.0	FD10		
3868	28.1	28.8	28.0	25.6	26.7	26.1	26.0	28.4	27.2	26.5										
3869	23.8	21.5	20.9	20.3	25.8	22.3	18.2	20.6	24.7	24.7	23.9	21.3	14.8	20.8	20.4	22.2	22.0			
3870	NOT PREGNANT																			
3871	NOT PREGNANT																			
3872	22.3	23.7	26.9	25.8	23.2	25.0	24.3	21.7	23.9	23.2	21.2	25.1	20.3	21.8	23.2					
3873	26.3	21.8	24.4	24.1	21.4	22.0	22.9	23.5	22.3	19.9	18.4	24.6	19.7	20.3	18.2					
3874	NOT PREGNANT																			
3875	25.6	24.3	26.4	24.1	24.1	22.4	23.8	23.5	23.6	25.7	25.2	24.0	FD 4	FD 2						
3876	25.8	27.5	26.9	25.7	28.8	24.6	26.8	28.1	26.4	26.6	27.6	27.2	28.9	UU						
3877	27.6	26.2	26.2	33.4	29.8	31.8	31.6	30.6	24.2	30.0	29.0									
3878	37.4	39.4	36.0	34.2	36.3	38.0	MM 2	39.0												
3879	27.8	26.1	29.9	28.4	28.5	28.2	28.6	25.6	26.9	29.4	27.6	28.6	26.5	23.7	25.2	FM 7				
3880	24.9	27.9	29.1	28.0	26.2	26.1	27.7	27.6	25.9	28.2	29.4	27.0	27.4	28.2	28.2	23.3				
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION																			
3882	29.3	30.6	30.4	29.3	27.9	29.0	28.3	27.7												
3883	27.8	22.9	25.9	26.6	25.7	27.1	24.1	20.1	24.2	22.4	24.7	22.9	24.3	24.0	24.7					
3884	32.2	32.6	33.0	31.9	32.8	29.7	31.2	30.7	29.8	31.3	31.5	30.2								
3885	26.9	25.8	25.4	25.0	24.3	23.5	19.6	22.5	23.2	26.2	26.7	24.4	22.8	25.1	FD 8					
3886	NOT PREGNANT																			
3887	23.8	24.5	20.7	25.0	23.7	18.9	21.6	17.5	19.7	20.6	20.3	21.4	18.8	21.8	18.1	20.5	23.6			
3888	25.5	21.9	23.1	22.7	22.0	22.4	MS	21.7	19.8	19.6	21.7	20.3	19.6	21.7	17.0	21.8				
3889	22.6	19.7	21.0	23.8	19.6	19.8	21.7	19.4	19.8	21.3	17.9	18.8	17.9	16.1	18.8	20.7	FD 8			
3890	44.2	43.1	42.5	41.7	41.7	42.6														

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 16): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY				POSTPARTUM DAY 14					
3891	25.9	21.7	22.6	22.3	24.0	19.0	19.2	26.4	27.5	23.4	21.7	23.2	21.8	18.0	25.7	21.3				
3892	26.9	21.2																		
3893	27.3	26.4	26.9	24.1	25.9	25.5	25.2	25.9	27.7	26.5	22.3	26.6	20.6							
3894	30.7	31.2	29.9	28.7	MM 4	MM 4	MD 2	26.8	28.0	28.4	28.9	28.2	28.5	25.6	FD 2					
3895	25.8	24.7	26.4	25.5	25.8	26.9	MM 3	26.8	26.2	26.2	26.2	28.0	23.0							
3896	NOT PREGNANT																			
3897	20.7	22.4	23.3	17.7	22.7	22.1	21.9	21.6	21.0	22.6	21.2	22.5	21.5	21.9	20.4					
3898	NOT PREGNANT																			
3899	24.2	30.1	30.0	31.4	31.1	30.6	29.6	25.1	27.4	30.3	27.0	29.5	28.4	28.0						
3900	29.1	29.5	31.6	31.2	30.0	29.8	29.8	30.0	29.8	30.1	28.0	29.6	FD 2							
3901	28.4	24.6	24.3	26.6	23.9	26.7	24.8	25.8	26.0	24.8	22.8	26.5	25.9	23.3	25.0					
3902	23.0	24.5	23.2	21.4	17.3	22.9	25.2	22.6	21.5	23.6	22.6	20.4	23.3	17.7	23.5	23.4	18.2			
3903	NOT PREGNANT																			
3904	27.0	26.1	28.3	26.4	28.8	26.0	29.4	26.8	27.8	23.3	25.5	28.8	28.9	25.2						
3905	32.9	34.7	38.2																	
3906	25.2	26.8	28.5	28.1	MD 4	27.6	20.8	26.6	26.8	25.6	28.4	25.4	27.0	25.4	23.3					
3907	25.4	21.6	25.2	26.8	23.9	24.8	24.7	24.8	19.5	26.0	22.9	25.3	23.8	25.2						
3908	NOT PREGNANT																			
3909	NOT PREGNANT																			
3910	30.1	31.2	21.7	28.7	30.8	29.9	28.0	27.2	28.5	27.7	26.6	27.8								
3911	24.0	26.4	26.7	24.3	28.0	26.8	28.3	25.1	25.5	27.3	23.8	23.5	28.4	23.4	23.2	27.8				
3912	29.5	30.1	26.5	27.0	27.2	23.2	24.4	MM 7	27.5	27.6	18.2	25.8	26.5	26.3	27.1	28.8	26.0			
3913	20.6	22.7	21.9	22.7	19.4	20.0	21.2	21.2	20.0	21.2	21.6	20.1	18.7	21.0	20.3	FS				
3914	NOT PREGNANT																			
3915	26.4	26.3	24.7	26.7	24.7	25.8	25.1	26.7	25.6	25.5	23.1	22.5	24.8							
3916	26.1	27.1	25.8	26.2	26.9	28.0	23.3	23.7	23.4	24.0	25.3	26.7	24.8	21.6	22.5	25.6				
3917	27.7	28.1	21.8	27.6	27.4	MM 8	28.6	25.0	26.9	23.3	29.0	23.5	18.9	27.1	27.2	FD 9				
3918	22.1	22.7	22.4	19.9	19.0	20.8	23.5	22.2	MS	21.8	23.2	21.7	22.1	24.0	14.1	23.3	19.6	20.6	FS	
3919	31.9	30.4	25.3	27.4	31.6	32.2	28.2	28.1	26.3	25.9	25.2	32.6	27.0	27.8	26.5	28.4	FD 7			
3920	31.7	30.5	30.1	32.0	27.3	29.8	29.9	31.3	30.8	31.3	29.6	29.6	29.5	33.7						

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TABLE C45 (PAGE 17): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY				POSTPARTUM DAY 21					
3801	35.1	37.7	35.3	39.4	36.8	34.4	28.0	MD 6	35.4	34.2	40.5	32.3	31.2	39.5	32.6					
3802	71.6	63.8	65.8	69.3																
3803	31.6	32.2	35.9	33.6	32.4	33.4	33.7	34.7	32.5	35.6	29.8	32.8	31.8	33.3	37.8	32.0	31.6	FM 8		
3804	37.6	43.9	27.7	33.4	38.7	37.9	42.0	39.8	32.8	38.7	27.2	32.1	34.1	40.0	33.6	30.1	28.2			
3805	31.3	36.5	27.7	31.4	30.6	30.6	35.3	29.6	29.2	30.6	21.0	29.2	36.4	31.9	29.7	32.4	FD15			
3806	47.4	39.4	38.9	40.4	42.2	39.6	39.8	44.1	37.6	33.6	MD 1	40.3	36.9	38.2	37.4	37.5	FM 7	FD 1	US	UU
3807	42.2	38.8	36.9	41.1	39.5	41.0	37.6	37.8	38.9	34.1	37.8	39.6	42.0	38.2	39.2					
3808	40.7	43.2	42.6	40.1	42.3	39.2	39.8	43.0	41.9	42.1	41.1	40.0								
3809	38.8	39.8	32.4	34.8	31.8	38.8	36.3	36.5	30.6	35.8	33.3	32.7	36.6	32.8	35.9	35.1	35.2			
3810	38.8	36.4	39.8	36.2	38.5	36.3	32.5	MD 1	36.6	35.2	36.5	38.2	37.3	35.6	37.4	33.3				
3811	35.1	32.3	37.6	30.1	28.2	27.3	35.2	33.5	37.2	26.9	30.5	31.2	25.8	25.5	31.0	30.1	FM10			
3812	36.2	30.7	38.1	29.8	31.2	33.9	33.5	30.3	32.4	36.2	34.4	31.5	32.5	37.2	32.8	31.6	30.9	FD 5	FD 4	FS
3813	40.6	44.0	40.2	43.1	40.4	41.1	40.1	46.3	35.9	42.7	42.6	44.8	41.6	43.2						
3814	51.8	42.9	47.0	49.8	47.1	46.4	46.6	48.9	47.6	44.1	44.8	47.3								
3815	43.8	42.0	35.8	37.9	41.8	42.7	39.7	36.8	43.6	MM 3	34.5	34.2	31.7	35.1	40.1	44.0	38.6			
3816	41.6	40.5	43.9	43.3	40.0	43.6	37.5	41.4	37.0	31.3	38.1	42.6	42.4	39.2	FD 1					
3817	NOT PREGNANT																			
3818	31.3	34.3	33.3	36.2	34.6	34.2	36.0	34.1	33.2	31.9	34.2	36.1	34.6	MD 4	33.8	34.7	31.1	30.7	FD 3	
3819	46.1	48.0	45.7	44.4	40.2	44.3	45.4	42.5	42.0	44.7	41.1	44.8	42.8							
3820	NOT PREGNANT																			
3821	33.0	34.2	35.5	35.5	34.4	31.3	31.6	36.8	30.8	37.1	32.7	27.2	29.6	31.1	30.5	25.6				
3822	42.2	33.9	36.5	35.8	30.0	29.7	32.2	33.2	37.8	34.8	40.9	37.4	33.3	35.3	FD 1					
3823	48.0	44.9	39.4	45.0	47.8	39.7	42.2	44.0	50.2	44.4	42.7									
3824	33.8	34.1	37.7	34.9	33.1	32.7	36.4	33.4	34.2	32.0	35.5	33.9	33.5							
3825	27.8	30.1	34.6	31.1	31.2	35.5	30.6	28.3	32.9	33.1	29.4	29.5	32.5	29.4	30.2	30.0	FM 8			
3826	21.6	32.9	35.4	30.7	32.7	28.0	31.1	30.7	31.4	MS	32.4	32.0	31.7	31.7	30.9	27.5	31.4	FS		
3827	36.2	33.5	34.4	32.7	29.8	32.2	36.3	33.0	33.5	31.4	33.6	35.0	33.2	30.0	FM 2					
3828	28.5	31.1	28.0	28.8	35.9	34.6	MM 6	MD 6	37.9	34.7	32.7	29.0	FM10	FM 6						
3829	41.9	44.7	36.0	44.6	42.1	39.4	46.0	42.9	41.4	36.3	42.5									
3830	37.6	45.1	39.2	42.9	MD 5	MD 4	46.6	46.0	37.7	40.1	FD 9	FM 5	FD 5							

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TABLE C45 (PAGE 18): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 21				
3831	45.6	44.3	41.4	45.6	44.2	44.8	40.9	46.5	40.8	42.8										
3832	NOT PREGNANT																			
3833	49.0	42.7	44.6	45.6	45.5	38.8	MM 2	MS	43.8	47.5	45.6	42.1	41.1	42.6	47.1	FS				
3834	43.4	40.8	37.4	38.7	42.2	39.3	38.1	40.5	41.7	33.5	38.5	35.8	41.6	34.8	43.5					
3835	NOT PREGNANT																			
3836	NOT PREGNANT																			
3837	46.1	50.6	48.4	46.4	45.8	47.7	52.4	46.8	46.0	40.2										
3838	38.7	42.7	46.1	40.6	41.8	35.3	38.6	42.4	37.4	40.1	40.8	36.4	40.8	35.4						
3839	NOT PREGNANT																			
3840	NOT PREGNANT																			
3841	NOT PREGNANT																			
3842	20.2	36.3	35.3	31.6	34.2	35.9	33.8	32.0	31.7	37.0	34.0	34.2	32.3	35.3	33.0	34.7				
3843	35.8	29.8	33.3	27.2	33.9	34.4	38.2	35.2	34.9	34.4	36.4	MM 9	MM 6	MM 6	28.2	32.7	37.7	27.3		
3844	NOT PREGNANT																			
3845	35.8	40.7	31.7	35.6	29.8	35.7	35.0	31.2	30.4	29.5	MD 9	MM 4	26.7	28.0	32.5	27.4	31.5	29.3	26.6	FD 7
3846	39.2	33.9	28.9	36.5	35.2	38.3	39.4	37.7	31.6	28.5	24.7	28.7	35.1	30.3	35.1	29.4	34.4	FM 3		
3847	56.5	56.1	56.7	54.3	55.0															
3848	24.2	35.5	36.5	38.6	36.1	37.4	32.7	37.2	34.2	36.4	35.7	34.1	36.7	32.5	37.8	36.1	FD14			
3849	41.7	39.1	41.2	40.3	43.5	43.3	44.2	41.7	35.6	39.7	41.4	40.4								
3850	44.4	43.7	44.7	40.2	44.6	40.7	39.7	47.2	43.2	45.3	39.8	43.1	39.2	44.7	35.0	FD12				
3851	29.5	37.5	30.4	35.5	37.3	MD10	MD 6	35.4	37.5	32.9	34.5	33.6	34.6	34.3	32.5	36.8	34.8	28.8		
3852	35.3	35.3	33.3	43.6	32.8	38.6	33.0	38.3	30.8	37.2	33.8	38.5	35.9	35.3	34.1	32.7				
3853	NOT PREGNANT																			
3854	38.3	42.9	41.9	41.6	46.9	38.0	42.3	MM 2	MS	MS	43.6	44.4	43.2	42.2	FM 5	FD 1				
3855	32.4	34.2	28.0	37.0	31.8	36.9	37.7	38.3	33.0	21.5	24.4	25.0	33.6	31.5	30.4	30.2	29.8	27.2		
3856	52.2	57.6	52.1	50.2	53.7	49.5	55.8	55.3	52.8	50.4	53.4									
3857	34.0	34.6	32.6	35.1	30.4	37.5	MM 5	34.1	38.4	33.2	31.8	32.6	38.2	37.1	24.5	31.8	29.2	FM 8	FD 6	
3858	34.9	36.3	34.5	34.8	33.9	MD 1	34.3	34.4	32.3	34.1	33.1	33.9	30.6	34.0	FM 8	FM 7				
3859	31.3	41.8	38.8	34.4	38.5	39.5	37.6	34.5	38.6	35.8	40.0	41.0	40.5	39.1	30.6					
3860	53.6	45.5	50.8	47.6	51.1	49.3	45.9	48.0	44.5	47.7	42.3	47.0								

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 19): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY				POSTPARTUM DAY 21					
3861	35.2	35.7	34.3	39.0	39.5	32.3	35.6	30.9	32.4	36.1	32.9	32.8	38.3	33.1	36.3	32.6				
3862	39.2	44.4	40.0	43.2	41.8	38.0	40.9	37.9	30.7	38.8	38.2	36.7	35.4	34.6	33.3	FD 5				
3863	33.2	37.3	33.7	32.4	36.0	33.8	35.6	33.2	33.6	35.8	29.8	32.5	33.2	33.2	32.5					
3864	47.0	46.1	44.7	45.5	38.9	MM 3	42.7	42.0	40.2	41.3	41.2	40.0	41.7	41.4	44.4					
3865	22.6	28.8	27.2	40.3	31.9	36.9	36.7	36.9	29.2	31.3	33.9	34.2	32.9	33.5	36.7	25.2	33.9	26.1	FM 8	
3866	50.3	60.2	54.7	54.1	54.4	48.1	50.8	48.2	52.3	54.5	51.1									
3867	29.6	41.2	38.0	35.8	39.8	36.7	31.4	41.2	35.5	33.9	29.5	37.2	34.9	37.8	36.6	33.2	29.7	FD10		
3868	47.1	47.3	45.2	42.1	48.0	43.0	46.8	45.4	42.3	43.9										
3869	33.4	27.8	28.4	26.5	34.9	32.8	30.8	31.2	36.7	37.1	31.1	31.1	30.5	19.1	35.8	29.8	32.0			
3870	NOT PREGNANT																			
3871	NOT PREGNANT																			
3872	33.8	38.1	38.2	36.2	30.9	37.4	34.1	44.0	33.5	28.8	35.4	32.8	30.3	38.6	32.1					
3873	36.5	36.9	33.2	31.2	36.0	33.5	32.5	34.7	26.5	27.6	37.0	28.9	32.2	32.1	34.3					
3874	NOT PREGNANT																			
3875	34.9	37.6	36.1	33.3	38.0	35.0	35.6	33.6	35.6	36.3	37.7	33.7	FD 4	FD 2						
3876	41.5	41.3	42.4	42.4	41.1	38.0	40.8	42.1	41.7	37.2	42.1	40.8	39.0	UU						
3877	50.3	42.0	53.7	43.2	44.1	50.6	52.3	48.4	49.4	38.6	46.8									
3878	58.5	57.0	60.8	52.4	62.0	69.2	MM 2	66.7												
3879	43.9	44.9	44.7	43.2	39.9	45.4	44.1	44.6	40.2	42.8	41.5	44.3	38.0	38.9	38.6	FM 7				
3880	41.3	44.8	35.4	42.7	39.5	37.9	42.2	40.0	39.9	43.7	42.0	39.9	42.2	41.7	43.1	36.7				
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION																			
3882	49.6	48.4	49.1	47.0	46.3	45.9	47.5	46.2												
3883	39.2	38.7	28.1	38.4	33.2	38.5	40.1	36.5	35.7	36.1	32.9	36.2	36.1	37.0	38.8					
3884	48.3	49.5	50.0	50.5	50.0	49.2	48.1	48.1	46.7	45.4	46.8	46.3								
3885	38.0	35.9	36.2	33.7	37.6	40.7	39.1	38.6	43.4	39.1	38.8	36.5	34.0	39.2	FD 8					
3886	NOT PREGNANT																			
3887	32.4	34.8	35.4	35.8	34.5	27.3	28.4	26.6	28.4	36.8	29.6	29.2	25.8	30.1	30.3	30.3	34.4			
3888	32.3	33.1	35.6	35.5	36.5	38.7	MS	32.6	32.6	27.9	35.3	31.6	31.8	30.4	32.8	29.6				
3889	32.1	34.3	29.3	32.1	29.6	26.6	22.0	32.4	35.1	27.1	26.7	25.6	28.4	25.5	29.4	28.8	FD 8			
3890	67.6	69.7	72.8	64.8	66.2	67.8														

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C45 (PAGE 20): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 21				
3891	26.5	31.2	30.3	26.9	35.8	37.0	35.7	25.5	37.0	32.4	38.1	32.3	32.0	34.8	34.2	35.3				
3892	37.6	46.9																		
3893	41.7	41.6	36.5	39.6	39.7	38.3	37.1	38.1	38.9	34.2	41.6	38.7	34.1							
3894	51.4	48.5	51.4	54.4	MM 4	MM 4	MD 2	46.2	41.7	48.2	44.9	47.3	46.3	49.6	FD 2					
3895	37.8	37.1	35.5	37.8	38.6	38.7	MM 3	38.2	36.4	38.6	32.6	36.8	34.8							
3896	NOT PREGNANT																			
3897	30.8	35.1	33.2	33.8	31.5	29.0	34.3	32.2	34.8	32.4	34.0	29.9	32.7	34.0	31.5					
3898	NOT PREGNANT																			
3899	41.4	40.5	42.3	39.4	37.4	37.6	41.1	43.9	44.4	38.2	38.4	39.6	42.1	40.9						
3900	46.1	50.5	45.7	46.8	45.6	50.7	46.1	45.8	47.0	47.7	49.5	44.6	FD 2							
3901	37.4	42.8	42.9	40.4	36.0	40.5	40.4	39.5	42.1	37.4	40.8	40.0	37.1	42.2	43.3					
3902	26.8	32.7	35.7	32.2	36.4	34.6	33.4	34.4	26.0	28.0	31.2	25.7	31.8	31.3	32.2	32.8	33.7			
3903	NOT PREGNANT																			
3904	39.5	42.7	36.3	41.2	37.2	40.8	42.2	43.0	43.9	41.2	40.5	38.9	38.8	42.3						
3905	56.0	57.9	55.6																	
3906	44.8	41.0	43.0	39.2	MD 4	38.0	35.7	35.2	35.9	36.5	41.3	40.5	42.1	38.2	40.3					
3907	38.6	42.3	42.2	41.8	45.6	37.2	44.4	41.2	45.2	40.9	32.5	42.2	38.1	44.1						
3908	NOT PREGNANT																			
3909	NOT PREGNANT																			
3910	31.5	42.1	45.3	42.1	44.2	44.3	45.0	40.8	43.2	40.3	39.2	41.2								
3911	44.7	40.6	41.5	46.0	44.8	38.5	43.4	40.4	35.5	37.1	39.7	38.2	39.0	39.3	41.1	43.9				
3912	42.8	44.4	35.2	47.1	35.6	39.6	40.4	MM 7	38.2	39.3	44.6	36.5	36.9	40.8	30.8	39.3	39.6			
3913	35.8	32.2	34.2	33.4	31.4	33.4	36.2	33.8	28.3	30.6	34.0	32.0	35.3	32.0	34.8	FS				
3914	NOT PREGNANT																			
3915	36.8	38.2	37.0	36.9	37.2	36.8	36.3	34.2	33.0	35.8	37.0	36.1	35.7							
3916	37.8	39.9	35.4	38.9	37.7	36.6	34.0	34.1	33.9	32.3	36.2	31.0	34.9	33.7	30.6	36.4				
3917	40.6	45.2	43.3	35.5	43.8	MM 8	39.4	38.9	43.0	32.4	37.3	37.3	42.3	45.3	36.4	FD 9				
3918	31.9	35.5	29.8	32.5	34.5	36.3	35.1	30.9	MS	34.2	21.7	31.2	28.4	35.2	33.2	34.7	31.5	36.7	FS	
3919	39.8	39.4	42.5	46.2	39.8	44.4	45.3	44.5	38.5	38.6	42.0	37.0	37.2	39.6	38.0	38.5	FD 7			
3920	50.9	48.5	51.0	44.1	47.0	50.0	51.2	49.9	45.8	50.1	48.7	48.0	47.8	50.5						

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TABLE C46 (PAGE 1): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1																				0 (CARRIER) MG/KG/DAY		
3801	M A	M A	M A	M A	M A	M A	M A	MD 6	F A	F A	F A	F A	F A	F A	F A								
3802	M A	F A	F A	F A																			
3803	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	FM 8					
3804	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A						
3805	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD15						
3806	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	MD 1	F A	F A	F A	F A	F A	FM 7	FD 1	U S	U U			
3807	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A								
3808	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A											
3809	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A						
3810	M A	M A	M A	M A	M A	M A	M A	MD 1	F A	F A	F A	F A	F A	F A	F A	F A							
3811	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	FM10							
3812	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	FD 5	FD 4	F S				
3813	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A								
3814	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A											
3815	M A	M A	M A	M A	M A	M A	M A	M A	M A	MM 3	F A	F A	F A	F A	F A	F A	F A						
3816	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	FD 1								
3817	NOT PREGNANT																						
3818	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	MD 4	F A	F A	F A	F A	FD 3				
3819	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A									
3820	NOT PREGNANT																						
3821	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A							
3822	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD 1								
3823	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A											
3824	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A									
3825	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FM 8					
3826	M A	M A	M A	M A	M A	M A	M A	M A	M A	M S	F A	F A	F A	F A	F A	F A	F A	F S					
3827	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	FM 2								
3828	M A	M A	M A	M A	M A	M A	MM 6	MD 6	F A	F A	F A	F A	FM10	FM 6									
3829	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A											
3830	M A	M A	M A	M A	MD 5	MD 4	F A	F A	F A	F A	F A	FD 9	FM 5	FD 5									

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TABLE C46 (PAGE 2): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2																				0.3 MG/KG/DAY		
3831	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A													
3832	NOT PREGNANT																						
3833	M A	M A	M A	M A	M A	M A	MM 2	M S	F A	F A	F A	F A	F A	F A	F A	F S							
3834	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A								
3835	NOT PREGNANT																						
3836	NOT PREGNANT																						
3837	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A													
3838	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A								
3839	NOT PREGNANT																						
3840	NOT PREGNANT																						
3841	NOT PREGNANT																						
3842	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A						
3843	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	MM 9	MM 6	MM 6	F A	F A	F A	F A					
3844	NOT PREGNANT																						
3845	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	MD 9	MM 4	F A	F A	F A	F A	F A	F A	F A FD 7				
3846	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A FM 3					
3847	M A	M A	F A	F A	F A																		
3848	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A FD14						
3849	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A											
3850	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A FD12								
3851	M A	M A	M A	M A	M A	MD10	MD 6	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A				
3852	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A							
3853	NOT PREGNANT																						
3854	M A	M A	M A	M A	M A	M A	M A	MM 2	M S	M S	F A	F A	F A	F A	FM 5	FD 1							
3855	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A				
3856	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A													
3857	M A	M A	M A	M A	M A	M A	MM 5	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A FM 8	FD 6				
3858	M A	M A	M A	M A	M A	MD 1	F A	F A	F A	F A	F A	F A	F A	F A	F A	FM 8	FM 7						
3859	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A							
3860	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A										

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TABLE C46 (PAGE 3): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3																				3.0 MG/KG/DAY		
3861	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A							
3862	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD 5							
3863	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A								
3864	M A	M A	M A	M A	M A	MM 3	F A	F A	F A	F A	F A	F A	F A	F A	F A								
3865	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FM 8				
3866	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A												
3867	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD10					
3868	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A													
3869	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A						
3870	NOT PREGNANT																						
3871	NOT PREGNANT																						
3872	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A								
3873	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A								
3874	NOT PREGNANT																						
3875	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	FD 4	FD 2									
3876	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	U U									
3877	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A												
3878	M A	M A	M A	M A	M A	M A	MM 2	F A															
3879	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	FM 7							
3880	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A							
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION																						
3882	M A	M A	M A	F A	F A	F A	F A	F A															
3883	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A								
3884	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A											
3885	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	FD 8								
3886	NOT PREGNANT																						
3887	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A				
3888	M A	M A	M A	M A	M A	M A	M S	F A	F A	F A	F A	F A	F A	F A	F A	F A							
3889	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD 8						
3890	M A	M A	M A	F A	F A	F A																	

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C46 (PAGE 4): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4																						30.0 MG/KG/DAY
3891	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A							
3892	F A	F A																					
3893	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A									
3894	M A	M A	M A	M A	MM 4	MM 4	MD 2	F A	F A	F A	F A	F A	F A	F A	FD 2								
3895	M A	M A	M A	M A	M A	M A	MM 3	F A	F A	F A	F A	F A	F A	F A									
3896	NOT PREGNANT																						
3897	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A								
3898	NOT PREGNANT																						
3899	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A								
3900	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	FD 2										
3901	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A								
3902	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A						
3903	NOT PREGNANT																						
3904	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A									
3905	M A	F A	M A																				
3906	M A	M A	M A	M A	MD 4	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A								
3907	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A								
3908	NOT PREGNANT																						
3909	NOT PREGNANT																						
3910	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A											
3911	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A							
3912	M A	M A	M A	M A	M A	M A	M A	MM 7	F A	F A	F A	F A	F A	F A	F A	F A	F A						
3913	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F S						
3914	NOT PREGNANT																						
3915	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A										
3916	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A						
3917	M A	M A	M A	M A	M A	MM 8	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD 9							
3918	M A	M A	M A	M A	M A	M A	M A	M A	M S	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F S			
3919	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	FD 7							
3920	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A									

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, U-UNCERTAIN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C47 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
1 0 (CARRIER)	3801	1-6	2/15 PUPS: PORTION OF TAIL BLACK.
		7-12	2/14 PUPS: PORTION OF TAIL BLACK.
		13-21	2/14 PUPS: PORTION OF TAIL MISSING.
	3812	4	1/19 PUPS: PORTION OF TAIL MISSING.
		5	1/18 PUPS: PORTION OF TAIL MISSING.
		6-21	1/17 PUPS: PORTION OF TAIL MISSING.
	3823	1-21	1/11 PUPS: PORTION OF TAIL MISSING.b

a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C47 (PAGE 2): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
2 0.3	3834	1-3	1/15 PUPS: RIGHT PINNA, ABRASION (0.1 CM IN DIAMETER).
	3845	1-2	1/20 PUPS: LOWER MIDLINE, TWO ABRASIONS (0.5 CM X 0.1 CM AND 0.2 CM X 0.1 CM); RIGHT FORELIMB, ABRASION 0.1 CM X 0.2 CM).
		1-2	1/20 PUPS: RIGHT FORELIMB, ABRASION (0.2 CM X 0.1 CM); CHEST, ABRASION (0.1 CM IN DIAMETER).
		1-2	1/20 PUPS: NOSE, ABRASION (0.1 CM IN DIAMETER).
		1-2	1/20 PUPS: LOWER MIDLINE, ABRASION (0.1 CM X 0.2 CM).
		1-2	1/20 PUPS: RIGHT FLANK, ULCERATION (0.3 CM X 0.1 CM).
		3	1/20 PUPS: LOWER MIDLINE, TWO ABRASIONS (0.5 CM X 0.1 CM AND 0.2 CM X 0.1 CM); RIGHT FORELIMB, ABRASION 0.1 CM X 0.2 CM).
		3	1/20 PUPS: RIGHT FORELIMB, SCAB (0.2 CM X 0.1 CM); CHEST, SCAB (0.1 CM IN DIAMETER).
		3	1/20 PUPS: NOSE, SCAB (0.1 CM IN DIAMETER).
		3	1/20 PUPS: LOWER MIDLINE, ABRASION (0.1 CM X 0.2 CM).
		3	1/20 PUPS: RIGHT FLANK, ABRASION (0.3 CM X 0.1 CM).
		4	1/20 PUPS: LOWER MIDLINE, TWO ABRASION (0.5 CM X 0.1 CM AND 0.2 CM X 0.1 CM); RIGHT FORELIMB, ABRASION 0.1 CM X 0.2 CM).
		4	1/20 PUPS: RIGHT FORELIMB, SCAB (0.2 CM X 0.1 CM); CHEST, SCAB (0.1 CM IN DIAMETER).
		4	1/20 PUPS: NOSE, SCAB (0.1 CM IN DIAMETER).
		4	1/20 PUPS: RIGHT FLANK, ABRASION (0.3 CM X 0.1 CM).
		5	1/19 PUPS: LOWER MIDLINE, TWO SCABS (0.5 CM X 0.1 CM AND 0.2 CM X 0.1 CM); RIGHT FORELIMB, ONE SCAB 0.1 CM X 0.2 CM).
		5	1/19 PUPS: CHEST, SCAB (0.1 CM IN DIAMETER).
		5	1/19 PUPS: RIGHT FLANK, SCAB (0.3 CM X 0.1 CM).
		6	1/19 PUPS: CHEST, SCAB (0.1 CM IN DIAMETER).
		6	1/19 PUPS: RIGHT FLANK, SCAB (0.3 CM X 0.1 CM).
		6	1/19 PUPS: LOWER MIDLINE, TWO SCABS (DID NOT EXCEED 0.5 CM X 0.1 CM).
		7	1/19 PUPS: LOWER MIDLINE, TWO SCABS (DID NOT EXCEED 0.2 CM X 0.1 CM).
		7	1/19 PUPS: RIGHT FLANK, SCAB (0.3 CM X 0.1 CM).
		8	1/18 PUPS: LOWER MIDLINE, TWO SCABS (DID NOT EXCEED 0.2 CM X 0.1 CM).

a. Tabulation restricted to adverse observations; all other pups appeared normal.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C47 (PAGE 3): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
2 (Cont.)			
0.3	3848	1-4	1/17 PUPS: NOSE, RAISED BLACK AREA (0.1 CM IN DIAMETER).
		14	1/17 PUPS: DECREASED MOTOR ACTIVITY, LOST RIGHTING REFLEX, EMACIATION, DYSPNEA; MORIBUND SACRIFICED.
	3854	4	1/12 PUPS: APPEARED BLUE AND THIN, LABORED BREATHING.
	3856	20-21	1/11 PUPS: RIGHT EYE, ANOPHTHALMOS.

a. Tabulation restricted to adverse observations; all other pups appeared normal.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C47 (PAGE 4): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
3 3.0	3872	3-12	1/15 PUPS: PORTION OF TAIL BLACK.
		13-21	1/15 PUPS: PORTION OF TAIL MISSING.b
	3883	4-9	1/15 PUPS: TAIL, CONSTRICTED.
		10-18	1/15 PUPS: TAIL, CONSTRICTED. PORTION OF TAIL MISSING.
		19-21	1/15 PUPS: PORTION OF TAIL MISSING.b
4 30.0	3891	4-11	1/16 PUPS: PORTION OF TAIL BLACK.
	3893	3-21	1/13 PUPS: LEFT FOREPAW, SWOLLEN.b
	3894	2	1/15 PUPS: NOT NURSING.
		3	1/13 PUPS: NOT NURSING, APPEARED YELLOW.
			1/13 PUPS: APPEARED YELLOW.
	3895	2-3	1/13 PUPS: LEFT HINDPAW, RAISED BLACK AREA (0.1 CM IN DIAMETER).
		4-8	1/12 PUPS: LEFT HINDPAW, RAISED BLACK AREA (0.1 CM IN DIAMETER).
	3907	13-19	1/14 PUPS: RIGHT HINDLIMB, SWOLLEN.
	3915	2-3	1/13 PUPS: SNOUT, SWOLLEN.
	3919	6	1/17 PUPS: NECK, DRY SKIN (1.5 CM IN DIAMETER).

a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C48 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
1 0 (CARRIER)	3801	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3802	DL 21	P	118	UTERUS: RIGHT HORN, CONSTRICTED. ALL OTHER TISSUES APPEARED NORMAL.
	3803	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	3804	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	3805	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3806	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3807	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3808	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3809	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3810	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3811	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3812	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3813	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3814	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3815	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3816	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3817	DG 25	NP	97	ALL TISSUES APPEARED NORMAL.
	3818	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3819	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3820	DG 25	NP	97	UTERUS: RIGHT HORN, MODERATE HYDROMETRA; LEFT HORN, EXTREME HYDROMETRA. THIS OBSERVATION IS CONSIDERED TO REFLECT AN EXPECTED CHANGE IN THE UTERUS ASSOCIATED WITH ESTROUS CYCLING. VAGINA: DISTENDED WITH CLEAR FLUID. ALL OTHER TISSUES APPEARED NORMAL.
	3821	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3822	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3823	DL 21	P	122	ALL TISSUES APPEARED NORMAL.
	3824	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3825	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3826	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3827	DL 21	P	115	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DS = DAY OF STUDY DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table C32) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C48 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
1 (Cont.)					
0 (CARRIER)	3828	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3829	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3830	DL 21	P	114	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DS = DAY OF STUDY DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table C32) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C48 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
2					
0.3	3831	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3832	DS 110	NP	110	ALL TISSUES APPEARED NORMAL.
	3833	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3834	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3835	DS 110	NP	110	ALL TISSUES APPEARED NORMAL.
	3836	DG 25	NP	98	ALL TISSUES APPEARED NORMAL.
	3837	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3838	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3839	DS 110	NP	110	ALL TISSUES APPEARED NORMAL.
	3840	DG 25	NP	99	ALL TISSUES APPEARED NORMAL.
	3841	DG 25	NP	97	ALL TISSUES APPEARED NORMAL.
	3842	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3843	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3844	DG 25	NP	100	ALL TISSUES APPEARED NORMAL.
	3845	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	3846	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3847	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3848	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3849	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3850	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3851	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3852	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3853	DS 110	NP	110	ALL TISSUES APPEARED NORMAL.
	3854	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3855	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3856	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3857	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3858	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3859	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3860	DL 21	P	117	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DS = DAY OF STUDY DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table C32) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C48 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
3					
3.0	3861	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3862	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3863	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3864	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3865	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3866	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3867	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3868	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3869	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3870	DG 25	NP	97	ALL TISSUES APPEARED NORMAL.
	3871	DS 110	NP	110	ALL TISSUES APPEARED NORMAL.
	3872	DL 21	P	114	NO NECROPSY OBSERVATIONS WERE RECORDED.
	3873	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3874	DG 25	NP	100	ALL TISSUES APPEARED NORMAL.
	3875	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3876	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3877	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3878	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3879	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3880	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3881	DG 9	P	82	MORIBUND SACRIFICED ON DAY 9 OF GESTATION. ALL TISSUES APPEARED NORMAL. UTERINE CONTENTS: 18 IMPLANTATION SITES.b
	3882	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3883	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3884	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3885	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3886	DG 25	NP	97	ALL TISSUES APPEARED NORMAL.
	3887	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3888	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3889	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3890	DL 21	P	118	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DS = DAY OF STUDY DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table C32) for external observations confirmed at necropsy.
b. Embryos were not evaluated because of early gestational age.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C48 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
4					
30.0	3891	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3892	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3893	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3894	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3895	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3896	DG 25	NP	98	ALL TISSUES APPEARED NORMAL.
	3897	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3898	DG 25	NP	101	ALL TISSUES APPEARED NORMAL.
	3899	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3900	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3901	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3902	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3903	DG 25	NP	97	UTERUS: BILATERAL HORNS, MODERATE HYDROMETRA. THIS OBSERVATION IS CONSIDERED TO REFLECT AN EXPECTED CHANGE IN THE UTERUS ASSOCIATED WITH ESTROUS CYCLING. ALL OTHER TISSUES APPEARED NORMAL.
	3904	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3905	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	3906	DL 21	P	116	COLON: PINWORMS. ALL OTHER TISSUES APPEARED NORMAL.
	3907	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3908	DG 25	NP	106	ALL TISSUES APPEARED NORMAL.
	3909	DG 25	NP	99	ALL TISSUES APPEARED NORMAL.
	3910	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3911	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3912	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3913	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	3914	DG 25	NP	97	ALL TISSUES APPEARED NORMAL.
	3915	DL 21	P	114	ALL TISSUES APPEARED NORMAL.
	3916	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	3917	DL 21	P	116	ALL TISSUES APPEARED NORMAL.
	3918	DL 21	P	116	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DS = DAY OF STUDY DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table C32) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C48 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
4 (Cont.)					
30.0	3919	DL 21	P	118	ALL TISSUES APPEARED NORMAL.
	3920	DL 21	P	117	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DS = DAY OF STUDY DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table C32) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
3801	306.	0.015	4.90	2.09	0.68	16.77	5.48	3.15	1.03	0.104	0.03	0.63	0.20
3802	339.	0.015	4.42	2.20	0.65	16.73	4.94	3.02	0.89	0.073	0.02	0.81	0.24
3803	363.	0.014	3.86	2.18	0.60	19.28	5.31	3.51	0.97	0.131	0.04	0.69	0.19
3804	361.	0.020	5.54	2.12	0.59	21.27	5.89	3.54	0.98	0.094	0.03	0.65	0.18
3805	345.	0.016	4.64	2.29	0.66	19.93	5.78	3.31	0.96	0.090	0.03	1.11	0.32
3806	432.	0.010	2.31	2.40	0.56	24.35	5.64	3.69	0.85	0.130	0.03	0.84	0.19
3807	387.	0.017	4.39	2.36	0.61	20.65	5.34	3.66	0.94	0.095	0.02	0.76	0.20
3808	347.	0.028	8.07	2.16	0.62	21.31	6.14	3.29	0.95	0.107	0.03	0.82	0.24
3809	354.	0.017	4.80	2.36	0.67	20.81	5.88	2.90	0.82	0.088	0.02	0.80	0.22
3810	308.	0.017	5.52	2.18	0.71	17.48	5.68	3.06	0.99	0.100	0.03	0.86	0.28
3811	351.	0.010	2.85	2.07	0.59	19.43	5.54	3.07	0.87	0.110	0.03	0.73	0.21
3812	363.	0.008	2.20	2.31	0.64	20.68	5.70	3.19	0.88	0.062	0.02	0.71	0.20
3813	393.	0.012	3.05	2.30	0.58	22.66	5.76	3.33	0.85	0.122	0.03	0.63	0.16
3814	328.	0.017	5.18	2.29	0.70	18.80	5.73	3.19	0.97	0.131	0.04	0.71	0.22
3815	331.	0.019	5.74	2.32	0.70	17.34	5.24	3.29	0.99	0.110	0.03	0.75	0.23
3816	372.	0.019	5.11	2.06	0.55	21.45	5.77	3.03	0.81	0.117	0.03	0.78	0.21
3817 NP													
3818	397.	0.013	3.27	2.24	0.56	20.64	5.20	3.08	0.78	0.120	0.03	0.78	0.20
3819	384.	0.008	2.08	2.16	0.56	21.32	5.55	3.41	0.89	0.099	0.02	0.83	0.22
3820 NP													
3821	338.	0.013	3.85	2.32	0.69	16.49	4.88	3.12	0.92	0.093	0.03	0.84	0.25
3822	298.	0.019	6.38	2.24	0.75	14.26	4.78	3.21	1.08	0.093	0.03	0.51	0.17
3823	391.	0.018	4.60	2.12	0.54	23.29	5.96	2.96	0.76	0.098	0.02	0.66	0.17
3824	333.	0.012	3.60	2.13	0.64	18.35	5.51	2.51	0.75	0.087	0.03	0.54	0.16
3825	314.	0.008	2.55	1.84	0.58	17.06	5.43	3.05	0.97	0.102	0.03	0.88	0.28
3826	309.	0.017b	5.50	2.28	0.74	16.75	5.42	3.57	1.16	0.118	0.04	0.85	0.28
3827	377.	0.015	3.98	2.04	0.54	17.58	4.66	3.36	0.89	0.093	0.02	0.73	0.19
3828	374.	0.015	4.01	2.06	0.55	19.94	5.33	2.73	0.73	0.102	0.03	0.74	0.20
3829	335.	0.013	3.88	2.06	0.61	18.81	5.61	3.02	0.90	0.100	0.03	0.58	0.17
3830	319.	0.002	0.63	2.24	0.70	17.35	5.44	3.31	1.04	0.107	0.03	0.78	0.24

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 1					0 (CARRIER) MG/KG/DAY		
3801	306.	0.162	0.05	0.020	6.54	1.37	0.45
3802	339.	0.152	0.04	0.028	8.26	1.21	0.36
3803	363.	0.150	0.04	0.028	7.71	1.39	0.38
3804	361.	0.148	0.04	0.025	6.92	1.47	0.41
3805	345.	0.163	0.05	0.028	8.12	1.21	0.35
3806	432.	0.140	0.03	0.030	6.94	1.39	0.32
3807	387.	0.119	0.03	0.020	5.17	1.31	0.34
3808	347.	0.155	0.04	0.023	6.63	1.31	0.38
3809	354.	0.122	0.03	0.019	5.37	1.38	0.39
3810	308.	0.158	0.05	0.031	10.06	1.37	0.44
3811	351.	0.126	0.04	0.020	5.70	1.44	0.41
3812	363.	0.082	0.02	0.026	7.16	1.39	0.38
3813	393.	0.105	0.03	0.026	6.62	1.57	0.40
3814	328.	0.110	0.03	0.027b	8.23	1.31	0.40
3815	331.	0.095	0.03	0.027	8.16	1.30	0.39
3816	372.	0.176	0.05	0.024	6.45	1.39	0.37
3817 NP	342.			0.022	6.43		
3818	397.	0.118	0.03	0.028b	7.05	1.67	0.42
3819	384.	0.137	0.04	0.027	7.03	1.45	0.38
3820 NP	329.			0.025	7.60		
3821	338.	0.131	0.04	0.020b	5.92	1.41	0.42
3822	298.	0.124	0.04	0.018	6.04	1.14	0.38
3823	391.	0.129	0.03	0.018b	4.60	1.24	0.32
3824	333.	0.119	0.04	0.018	5.40	1.27	0.38
3825	314.	0.103	0.03	0.027	8.60	1.44	0.46
3826	309.	0.147	0.05	0.026	8.41	1.43	0.46
3827	377.	0.120	0.03	0.026	6.90	1.34	0.36
3828	374.	0.108	0.03	0.022	5.88	1.37	0.37
3829	335.	0.149	0.04	0.023b	6.86	1.19	0.36
3830	319.	0.160	0.05	0.019b	5.96	1.34	0.42

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
3831	342.	0.021	6.14	2.11	0.62	18.42	5.38	3.47	1.01	0.091	0.03	0.84	0.24
3832	NP												
3833	341.	0.015	4.40	2.13	0.62	18.83	5.52	3.37	0.99	0.086	0.02	1.09	0.32
3834	356.	0.011	3.09	2.11	0.59	18.95	5.32	3.75	1.05	0.087	0.02	0.64	0.18
3835	NP												
3836	NP												
3837	390.	0.025	6.41	2.28	0.58	21.01	5.39	4.05	1.04	0.106	0.03	0.82	0.21
3838	294.	0.016	5.44	2.22	0.76	16.57	5.64	3.00	1.02	0.093	0.03	0.50	0.17
3839	NP												
3840	NP												
3841	NP												
3842	349.	0.034	9.74	2.10	0.60	17.77	5.09	3.34	0.96	0.105	0.03	0.77	0.22
3843	366.	0.017	4.64	2.23	0.61	19.73	5.39	3.14	0.86	0.098	0.03	0.95	0.26
3844	NP												
3845	382.	0.029	7.59	2.17	0.57	23.62	6.18	3.81	1.00	0.126	0.03	0.63	0.16
3846	374.	0.017	4.54	2.26	0.60	23.94	6.40	3.34	0.89	0.134	0.04	0.87	0.23
3847	341.	0.010	2.93	2.15	0.63	16.07	4.71	2.71	0.79	0.042	0.01	0.63	0.18
3848	355.	0.007	1.97	2.33	0.66	19.00	5.35	3.21	0.90	0.112	0.03	0.72	0.20
3849	348.	0.021	6.03	2.25	0.65	22.06	6.34	3.06	0.88	0.123	0.04	0.77	0.22
3850	322.	0.011	3.42	2.29	0.71	17.89	5.56	3.31	1.03	0.076	0.02	0.75	0.23
3851	368.	0.017	4.62	2.29	0.62	21.45	5.83	2.63	0.71	0.077	0.02	0.62	0.17
3852	386.	0.017	4.40	2.16	0.56	22.14	5.74	3.52	0.91	0.088	0.02	0.99	0.26
3853	NP												
3854	355.	0.020	5.63	2.14	0.60	19.27	5.43	3.31	0.93	0.101	0.03	0.63	0.18
3855	357.	0.018	5.04	2.23	0.62	19.31	5.41	2.93	0.82	0.111	0.03	0.87	0.24
3856	372.	0.022	5.91	2.05	0.55	18.39	4.94	3.19	0.86	0.089	0.02	0.73	0.20
3857	394.	0.019	4.82	2.11	0.54	23.92	6.07	3.64	0.92	0.086	0.02	0.92	0.23
3858	380.	0.014	3.68	2.14	0.56	21.80	5.74	4.28	1.13	0.086	0.02	0.83	0.22
3859	366.	0.013	3.55	2.16	0.59	19.46	5.32	3.20	0.87	0.110	0.03	0.94	0.26
3860	365.	0.019	5.20	2.19	0.60	18.25	5.00	2.88	0.79	0.094	0.02	0.61	0.17

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 2					0.3 MG/KG/DAY		
3831	342.	0.156	0.04	0.024	7.02	1.30	0.38
3832 NP							
3833	341.	0.094	0.03	0.024b	7.04	1.55	0.45
3834	356.	0.155	0.04	0.031	8.71	1.19	0.33
3835 NP	315.			0.022	6.98		
3836 NP	306.			0.026	8.50		
3837	390.	0.136	0.03	0.026b	6.67	1.40	0.36
3838	294.	0.176	0.06	0.025	8.50	1.14	0.39
3839 NP				c	----		
3840 NP	420.			0.031	7.38		
3841 NP	309.			0.023	7.44		
3842	349.	0.150	0.04	0.022	6.30	1.30	0.37
3843	366.	0.136	0.04	0.019	5.19	1.45	0.40
3844 NP	337.			0.031b	9.20		
3845	382.	0.160	0.04	0.023	6.02	1.47	0.38
3846	374.	0.174	0.05	0.024	6.42	1.44	0.38
3847	341.	0.155	0.04	0.026	7.62	1.11	0.32
3848	355.	0.166	0.05	c	----	1.39	0.39
3849	348.	0.171	0.05	0.029	8.33	1.44	0.41
3850	322.	0.149	0.05	0.027	8.38	1.00	0.31
3851	368.	0.113	0.03	0.022	5.98	1.41	0.38
3852	386.	0.172	0.04	0.034	8.81	1.65	0.43
3853 NP				c	----		
3854	355.	0.119	0.03	0.026	7.32	1.33	0.37
3855	357.	0.106	0.03	0.019b	5.32	1.32	0.37
3856	372.	0.126	0.03	0.025	6.72	1.40	0.38
3857	394.	0.196	0.05	0.026	6.60	1.39	0.35
3858	380.	0.175	0.05	0.027	7.10	1.42	0.37
3859	366.	0.172	0.05	0.022	6.01	1.28	0.35
3860	365.	0.113	0.03	0.023	6.30	1.18	0.32

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
3861	348.	0.014	4.02	2.20	0.63	18.95	5.44	3.43	0.98	0.114	0.03	0.71	0.20
3862	368.	0.015	4.08	2.32	0.63	18.40	5.00	2.87	0.78	0.228	0.06	0.70	0.19
3863	366.	0.016	4.37	2.23	0.61	21.09	5.76	3.35	0.92	0.092	0.02	0.77	0.21
3864	314.	0.016	5.10	2.30	0.73	18.37	5.85	3.57	1.14	0.083	0.03	1.00	0.32
3865	416.	0.010	2.40	2.33	0.56	22.49	5.41	3.67	0.88	0.093	0.02	0.97	0.23
3866	376.	0.020	5.32	2.17	0.58	21.38	5.69	2.85	0.76	0.085	0.02	0.72	0.19
3867	365.	0.019	5.20	2.03	0.56	21.15	5.79	3.21	0.88	0.116	0.03	0.79	0.22
3868	358.	0.015	4.19	2.18	0.61	19.35	5.40	2.63	0.73	0.105	0.03	0.48	0.13
3869	373.	0.030	8.04	2.32	0.62	21.10	5.66	2.91	0.78	0.116	0.03	0.54	0.14
3870 NP													
3871 NP													
3872	392.	0.016	4.08	2.16	0.55	20.54	5.24	3.60	0.92	0.090	0.02	0.69	0.18
3873	345.	0.017	4.93	2.18	0.63	18.20	5.28	3.07	0.89	0.111	0.03	0.70	0.20
3874 NP													
3875	359.	0.016	4.46	2.37	0.66	18.79	5.23	3.06	0.85	0.111	0.03	0.82	0.23
3876	356.	0.015	4.21	2.11	0.59	20.64	5.80	2.98	0.84	0.106	0.03	0.65	0.18
3877	390.	0.009	2.31	2.02	0.52	20.70	5.31	3.15	0.81	0.100	0.02	0.73	0.19
3878	365.	0.007	1.92	2.17	0.59	17.01	4.66	2.99	0.82	0.072	0.02	0.75	0.20
3879	417.	0.012	2.88	2.30	0.55	22.55	5.41	3.45	0.83	0.108	0.02	0.84	0.20
3880	342.	0.018	5.26	2.04	0.60	20.13	5.88	3.44	1.00	0.113	0.03	0.78	0.23
3881b	---	0.015	----	2.02	----	12.08	----	2.43	----	0.099	----	0.62	----
3882	354.	0.022	6.21	2.12	0.60	20.01	5.65	2.89	0.82	0.084	0.02	0.60	0.17
3883	325.	0.014	4.31	2.17	0.67	19.20	5.91	3.43	1.06	0.097	0.03	0.87	0.27
3884	323.	0.023	7.12	2.18	0.67	17.00	5.26	3.16	0.98	0.121	0.04	0.65	0.20
3885	344.	0.026	7.56	2.13	0.62	15.56	4.52	2.69	0.78	0.118	0.03	0.55	0.16
3886 NP													
3887	393.	0.018	4.58	2.35	0.60	20.95	5.33	3.42	0.87	0.149	0.04	0.73	0.18
3888	331.	0.019	5.74	2.00	0.60	21.94	6.63	3.62	1.09	0.092	0.03	0.83	0.25
3889	370.	0.025	6.76	2.33	0.63	17.14	4.63	2.74	0.74	0.082	0.02	0.38	0.10
3890	342.	0.023	6.72	2.37	0.69	18.48	5.40	3.70	1.08	0.089	0.03	0.80	0.23

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Dam 3881 was moribund sacrificed on day 9 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY	
3861	348.	0.137	0.04	0.033b	9.48	1.27	0.36
3862	368.	0.116	0.03	0.028	7.61	1.55	0.42
3863	366.	0.091	0.02	0.026b	7.10	1.56	0.43
3864	314.	0.126	0.04	0.026	8.28	1.23	0.39
3865	416.	0.147	0.04	0.019	4.57	1.44	0.35
3866	376.	0.105	0.03	0.029	7.71	1.34	0.36
3867	365.	0.122	0.03	0.031	8.49	1.30	0.36
3868	358.	0.167	0.05	0.029	8.10	1.33	0.37
3869	373.	0.119	0.03	0.027b	7.24	1.29	0.34
3870 NP	322.			0.033	10.25		
3871 NP				c	----		
3872	392.	0.110	0.03	0.034	8.67	1.41	0.36
3873	345.	0.125	0.04	0.022	6.38	1.51	0.44
3874 NP	355.			0.023	6.48		
3875	359.	0.099	0.03	0.021	5.85	1.60	0.44
3876	356.	0.095	0.03	0.024	6.74	1.35	0.38
3877	390.	0.114	0.03	0.026	6.67	1.33	0.34
3878	365.	0.168	0.05	0.025	6.85	1.17	0.32
3879	417.	0.082	0.02	0.025	6.00	1.24	0.30
3880	342.	0.165	0.05	0.024	7.02	1.37	0.40
3881d	---	0.107	----	0.028	----	1.10	----
3882	354.	0.166	0.05	0.025	7.06	1.18	0.33
3883	325.	0.096	0.03	0.022b	6.77	1.43	0.44
3884	323.	0.118	0.04	0.020	6.19	1.30	0.40
3885	344.	0.149	0.04	0.019b	5.52	1.07	0.31
3886 NP	329.			0.024	7.29		
3887	393.	0.094	0.02	0.023	5.85	1.29	0.33
3888	331.	0.120	0.04	0.015e	4.53e	1.30	0.39
3889	370.	0.100	0.03	0.020	5.40	1.25	0.34
3890	342.	0.146	0.04	0.021	6.14	1.33	0.39

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Value was not recorded.
d. Dam 3881 was moribund sacrificed on day 9 of gestation; values excluded from group averages and statistical analyses.
e. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
3891	376.	0.016	4.26	2.20	0.58	20.66	5.49	3.26	0.87	0.114	0.03	0.74	0.20
3892	376.	0.015	3.99	1.98	0.53	16.16	4.30	3.19	0.85	0.112	0.03	0.94	0.25
3893	352.	0.016	4.54	2.27	0.64	20.78	5.90	3.06	0.87	0.100	0.03	0.53	0.15
3894	377.	0.020	5.30	2.37	0.63	22.27	5.91	3.45	0.92	0.087	0.02	0.66	0.18
3895	371.	b	----	2.13	0.57	18.46	4.98	2.83	0.76	0.082	0.02	0.57	0.15
3896 NP													
3897	323.	0.006	1.86	2.20	0.68	18.54	5.74	3.12	0.96	0.074	0.02	0.71	0.22
3898 NP													
3899	322.	0.003	0.93	2.19	0.68	15.19	4.72	3.26	1.01	0.066	0.02	0.85	0.26
3900	350.	0.012	3.43	1.98	0.56	17.79	5.08	3.12	0.89	0.105	0.03	0.72	0.20
3901	337.	0.019	5.64	2.18	0.65	19.67	5.84	3.08	0.91	0.111	0.03	0.91	0.27
3902	348.	0.012	3.45	2.21	0.64	20.65	5.93	3.73	1.07	0.114	0.03	0.59	0.17
3903 NP													
3904	323.	0.016	4.95	2.37	0.73	19.03	5.89	3.11	0.96	0.100	0.03	0.75	0.23
3905	321.	0.023	7.16	2.33	0.72	15.87	4.94	3.12	0.97	0.089	0.03	0.58	0.18
3906	384.	0.010	2.60	2.12	0.55	20.03	5.22	3.20	0.83	0.114	0.03	0.87	0.23
3907	350.	0.009	2.57	2.13	0.61	18.95	5.41	2.87	0.82	0.113	0.03	0.69	0.20
3908 NP													
3909 NP													
3910	397.	0.014	3.53	2.25	0.57	22.78	5.74	3.50	0.88	0.101	0.02	0.81	0.20
3911	315.	0.015	4.76	2.05	0.65	16.32	5.18	2.70	0.86	0.093	0.03	0.51	0.16
3912	384.	0.016	4.17	2.15	0.56	24.20	6.30	3.45	0.90	0.113	0.03	0.71	0.18
3913	377.	0.020	5.30	2.19	0.58	21.53	5.71	3.60	0.95	0.109	0.03	0.95	0.25
3914 NP													
3915	348.	0.013	3.74	2.20	0.63	22.01	6.32	3.24	0.93	0.096	0.03	0.67	0.19
3916	341.	0.009	2.64	2.13	0.62	19.99	5.86	3.19	0.94	0.089	0.03	0.78	0.23
3917	374.	0.020	5.35	2.18	0.58	21.42	5.73	3.05	0.82	0.111	0.03	0.65	0.17
3918	362.	0.013	3.59	1.86	0.51	18.22	5.03	3.08	0.85	0.100	0.03	0.66	0.18
3919	331.	0.027	8.16	2.22	0.67	16.01	4.84	3.45	1.04	0.118	0.04	0.94	0.28
3920	332.	0.029	8.73	2.35	0.71	18.58	5.60	3.10	0.93	0.081	0.02	0.54	0.16

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C49 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 4					30.0 MG/KG/DAY		
3891	376.	0.108	0.03	0.024	6.38	1.43	0.38
3892	376.	0.155	0.04	0.028	7.45	1.48	0.39
3893	352.	0.118	0.03	0.033	9.38	1.10	0.31
3894	377.	0.137	0.04	0.029	7.69	1.41	0.37
3895	371.	0.146	0.04	0.034	9.16	1.28	0.34
3896 NP	365.			0.037	10.14		
3897	323.	0.086	0.03	0.030	9.29	1.50	0.46
3898 NP	281.			0.036	12.81		
3899	322.	0.118	0.04	0.031b	9.63	1.47	0.46
3900	350.	0.077	0.02	0.027	7.71	1.54	0.44
3901	337.	0.191	0.06	0.033	9.79	1.35	0.40
3902	348.	0.139	0.04	0.024	6.90	1.22	0.35
3903 NP	255.			0.028	10.98		
3904	323.	0.126	0.04	0.034b	10.53	1.57	0.49
3905	321.	0.124	0.04	0.030	9.34	1.13	0.35
3906	384.	0.144	0.04	0.032	8.33	1.41	0.37
3907	350.	0.173	0.05	0.030	8.57	1.48	0.42
3908 NP	325.			0.036	11.08		
3909 NP	318.			0.033	10.38		
3910	397.	0.124	0.03	0.042	10.58	1.42	0.36
3911	315.	0.093	0.03	0.032	10.16	1.39	0.44
3912	384.	0.130	0.03	0.025b	6.51	1.61	0.42
3913	377.	0.156	0.04	0.025	6.63	1.30	0.34
3914 NP	374.			0.035	9.36		
3915	348.	0.122	0.04	0.021	6.03	1.11	0.32
3916	341.	0.100	0.03	0.032	9.38	1.51	0.44
3917	374.	0.127	0.03	0.032	8.56	1.37	0.37
3918	362.	0.181	0.05	0.028	7.73	1.31	0.36
3919	331.	0.140	0.04	0.028	8.46	1.43	0.43
3920	332.	0.097	0.03	0.033	9.94	1.32	0.40

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 1): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY		LIVER		KIDNEY PAIRED		ADRENAL PAIRED		SPLEEN		OVARY PAIRED	
		ABS. WT.	REL. % BRW	ABS. WT.	REL. % BRW	ABS. WT.	REL. % BRW	ABS. WT.	REL. % BRW	ABS. WT.	REL. % BRW	ABS. WT.	REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
3801	2.09	0.015	0.72	16.77	802.39	3.15	150.72	0.104	4.98	0.63	30.14	0.162	7.75
3802	2.20	0.015	0.68	16.73	760.45	3.02	137.27	0.073	3.32	0.81	36.82	0.152	6.91
3803	2.18	0.014	0.64	19.28	884.40	3.51	161.01	0.131	6.01	0.69	31.65	0.150	6.88
3804	2.12	0.020	0.94	21.27	1003.30	3.54	166.98	0.094	4.43	0.65	30.66	0.148	6.98
3805	2.29	0.016	0.70	19.93	870.30	3.31	144.54	0.090	3.93	1.11	48.47	0.163	7.12
3806	2.40	0.010	0.42	24.35	1014.58	3.69	153.75	0.130	5.42	0.84	35.00	0.140	5.83
3807	2.36	0.017	0.72	20.65	875.00	3.66	155.08	0.095	4.02	0.76	32.20	0.119	5.04
3808	2.16	0.028	1.30	21.31	986.57	3.29	152.31	0.107	4.95	0.82	37.96	0.155	7.18
3809	2.36	0.017	0.72	20.81	881.78	2.90	122.88	0.088	3.73	0.80	33.90	0.122	5.17
3810	2.18	0.017	0.78	17.48	801.83	3.06	140.37	0.100	4.59	0.86	39.45	0.158	7.25
3811	2.07	0.010	0.48	19.43	938.65	3.07	148.31	0.110	5.31	0.73	35.26	0.126	6.09
3812	2.31	0.008	0.35	20.68	895.24	3.19	138.10	0.062	2.68	0.71	30.74	0.082	3.55
3813	2.30	0.012	0.52	22.66	985.22	3.33	144.78	0.122	5.30	0.63	27.39	0.105	4.56
3814	2.29	0.017	0.74	18.80	820.96	3.19	139.30	0.131	5.72	0.71	31.00	0.110	4.80
3815	2.32	0.019	0.82	17.34	747.41	3.29	141.81	0.110	4.74	0.75	32.33	0.095	4.09
3816	2.06	0.019	0.92	21.45	1041.26	3.03	147.09	0.117	5.68	0.78	37.86	0.176	8.54
3817 NP													
3818	2.24	0.013	0.58	20.64	921.43	3.08	137.50	0.120	5.36	0.78	34.82	0.118	5.27
3819	2.16	0.008	0.37	21.32	987.04	3.41	157.87	0.099	4.58	0.83	38.42	0.137	6.34
3820 NP													
3821	2.32	0.013	0.56	16.49	710.78	3.12	134.48	0.093	4.01	0.84	36.21	0.131	5.65
3822	2.24	0.019	0.85	14.26	636.61	3.21	143.30	0.093	4.15	0.51	22.77	0.124	5.54
3823	2.12	0.018	0.85	23.29	1098.58	2.96	139.62	0.098	4.62	0.66	31.13	0.129	6.08
3824	2.13	0.012	0.56	18.35	861.50	2.51	117.84	0.087	4.08	0.54	25.35	0.119	5.59
3825	1.84	0.008	0.43	17.06	927.17	3.05	165.76	0.102	5.54	0.88	47.83	0.103	5.60
3826	2.28	0.017a	0.74	16.75	734.65	3.57	156.58	0.118	5.18	0.85	37.28	0.147	6.45
3827	2.04	0.015	0.74	17.58	861.76	3.36	164.70	0.093	4.56	0.73	35.78	0.120	5.88
3828	2.06	0.015	0.73	19.94	967.96	2.73	132.52	0.102	4.95	0.74	35.92	0.108	5.24
3829	2.06	0.013	0.63	18.81	913.11	3.02	146.60	0.100	4.85	0.58	28.16	0.149	7.23
3830	2.24	0.002	0.09	17.35	774.55	3.31	147.77	0.107	4.78	0.78	34.82	0.160	7.14

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 2): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 1				0 (CARRIER) MG/KG/DAY	
3801	2.09	0.020	0.96	1.37	65.55
3802	2.20	0.028	1.27	1.21	55.00
3803	2.18	0.028	1.28	1.39	63.76
3804	2.12	0.025	1.18	1.47	69.34
3805	2.29	0.028	1.22	1.21	52.84
3806	2.40	0.030	1.25	1.39	57.92
3807	2.36	0.020	0.85	1.31	55.51
3808	2.16	0.023	1.06	1.31	60.65
3809	2.36	0.019	0.80	1.38	58.47
3810	2.18	0.031	1.42	1.37	62.84
3811	2.07	0.020	0.97	1.44	69.56
3812	2.31	0.026	1.12	1.39	60.17
3813	2.30	0.026	1.13	1.57	68.26
3814	2.29	0.027a	1.18	1.31	57.20
3815	2.32	0.027	1.16	1.30	56.03
3816	2.06	0.024	1.16	1.39	67.48
3817 NP		0.022	----		
3818	2.24	0.028a	1.25	1.67	74.55
3819	2.16	0.027	1.25	1.45	67.13
3820 NP		0.025	----		
3821	2.32	0.020a	0.86	1.41	60.78
3822	2.24	0.018	0.80	1.14	50.89
3823	2.12	0.018a	0.85	1.24	58.49
3824	2.13	0.018	0.84	1.27	59.62
3825	1.84	0.027	1.47	1.44	78.26
3826	2.28	0.026	1.14	1.43	62.72
3827	2.04	0.026	1.27	1.34	65.69
3828	2.06	0.022	1.07	1.37	66.50
3829	2.06	0.023a	1.12	1.19	57.77
3830	2.24	0.019a	0.85	1.34	59.82

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 3): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % BRW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
3831	2.11	0.021	1.00	18.42	872.98	3.47	164.45	0.091	4.31	0.84	39.81	0.156	7.39
3832 NP													
3833	2.13	0.015	0.70	18.83	884.04	3.37	158.22	0.086	4.04	1.09	51.17	0.094	4.41
3834	2.11	0.011	0.52	18.95	898.10	3.75	177.72	0.087	4.12	0.64	30.33	0.155	7.34
3835 NP													
3836 NP													
3837	2.28	0.025	1.10	21.01	921.49	4.05	177.63	0.106	4.65	0.82	35.96	0.136	5.96
3838	2.22	0.016	0.72	16.57	746.40	3.00	135.14	0.093	4.19	0.50	22.52	0.176	7.93
3839 NP													
3840 NP													
3841 NP													
3842	2.10	0.034	1.62	17.77	846.19	3.34	159.05	0.105	5.00	0.77	36.67	0.150	7.14
3843	2.23	0.017	0.76	19.73	884.75	3.14	140.81	0.098	4.39	0.95	42.60	0.136	6.10
3844 NP													
3845	2.17	0.029	1.34	23.62	1088.48	3.81	175.58	0.126	5.81	0.63	29.03	0.160	7.37
3846	2.26	0.017	0.75	23.94	1059.29	3.34	147.79	0.134	5.93	0.87	38.50	0.174	7.70
3847	2.15	0.010	0.46	16.07	747.44	2.71	126.05	0.042	1.95	0.63	29.30	0.155	7.21
3848	2.33	0.007	0.30	19.00	815.45	3.21	137.77	0.112	4.81	0.72	30.90	0.166	7.12
3849	2.25	0.021	0.93	22.06	980.44	3.06	136.00	0.123	5.47	0.77	34.22	0.171	7.60
3850	2.29	0.011	0.48	17.89	781.22	3.31	144.54	0.076	3.32	0.75	32.75	0.149	6.51
3851	2.29	0.017	0.74	21.45	936.68	2.63	114.85	0.077	3.36	0.62	27.07	0.113	4.93
3852	2.16	0.017	0.79	22.14	1025.00	3.52	162.96	0.088	4.07	0.99	45.83	0.172	7.96
3853 NP													
3854	2.14	0.020	0.93	19.27	900.47	3.31	154.67	0.101	4.72	0.63	29.44	0.119	5.56
3855	2.23	0.018	0.81	19.31	865.92	2.93	131.39	0.111	4.98	0.87	39.01	0.106	4.75
3856	2.05	0.022	1.07	18.39	897.07	3.19	155.61	0.089	4.34	0.73	35.61	0.126	6.15
3857	2.11	0.019	0.90	23.92	1133.65	3.64	172.51	0.086	4.08	0.92	43.60	0.196	9.29
3858	2.14	0.014	0.65	21.80	1018.69	4.28	200.00	0.086	4.02	0.83	38.78	0.175	8.18
3859	2.16	0.013	0.60	19.46	900.92	3.20	148.15	0.110	5.09	0.94	43.52	0.172	7.96
3860	2.19	0.019	0.87	18.25	833.33	2.88	131.51	0.094	4.29	0.61	27.85	0.113	5.16

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 4): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 2					0.3 MG/KG/DAY
3831	2.11	0.024	1.14	1.30	61.61
3832 NP		a	----		
3833	2.13	0.024b	1.13	1.55	72.77
3834	2.11	0.031	1.47	1.19	56.40
3835 NP		0.022	----		
3836 NP		0.026	----		
3837	2.28	0.026b	1.14	1.40	61.40
3838	2.22	0.025	1.13	1.14	51.35
3839 NP		a	----		
3840 NP		0.031	----		
3841 NP		0.023	----		
3842	2.10	0.022	1.05	1.30	61.90
3843	2.23	0.019	0.85	1.45	65.02
3844 NP		0.031b	----		
3845	2.17	0.023	1.06	1.47	67.74
3846	2.26	0.024	1.06	1.44	63.72
3847	2.15	0.026	1.21	1.11	51.63
3848	2.33	a	----	1.39	59.66
3849	2.25	0.029	1.29	1.44	64.00
3850	2.29	0.027	1.18	1.00	43.67
3851	2.29	0.022	0.96	1.41	61.57
3852	2.16	0.034	1.57	1.65	76.39
3853 NP		a	----		
3854	2.14	0.026	1.21	1.33	62.15
3855	2.23	0.019b	0.85	1.32	59.19
3856	2.05	0.025	1.22	1.40	68.29
3857	2.11	0.026	1.23	1.39	65.88
3858	2.14	0.027	1.26	1.42	66.36
3859	2.16	0.022	1.02	1.28	59.26
3860	2.19	0.023	1.05	1.18	53.88

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Value was not recorded.
b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 5): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % BRW
DOSAGE GROUP 3					3.0 MG/KG/DAY								
3861	2.20	0.014	0.64	18.95	861.36	3.43	155.91	0.114	5.18	0.71	32.27	0.137	6.23
3862	2.32	0.015	0.65	18.40	793.10	2.87	123.71	0.228	9.83	0.70	30.17	0.116	5.00
3863	2.23	0.016	0.72	21.09	945.74	3.35	150.22	0.092	4.12	0.77	34.53	0.091	4.08
3864	2.30	0.016	0.70	18.37	798.70	3.57	155.22	0.083	3.61	1.00	43.48	0.126	5.48
3865	2.33	0.010	0.43	22.49	965.24	3.67	157.51	0.093	3.99	0.97	41.63	0.147	6.31
3866	2.17	0.020	0.92	21.38	985.25	2.85	131.34	0.085	3.92	0.72	33.18	0.105	4.84
3867	2.03	0.019	0.94	21.15	1041.87	3.21	158.13	0.116	5.71	0.79	38.92	0.122	6.01
3868	2.18	0.015	0.69	19.35	887.61	2.63	120.64	0.105	4.82	0.48	22.02	0.167	7.66
3869	2.32	0.030	1.29	21.10	909.48	2.91	125.43	0.116	5.00	0.54	23.28	0.119	5.13
3870 NP													
3871 NP													
3872	2.16	0.016	0.74	20.54	950.92	3.60	166.67	0.090	4.17	0.69	31.94	0.110	5.09
3873	2.18	0.017	0.78	18.20	834.86	3.07	140.82	0.111	5.09	0.70	32.11	0.125	5.73
3874 NP													
3875	2.37	0.016	0.68	18.79	792.83	3.06	129.11	0.111	4.68	0.82	34.60	0.099	4.18
3876	2.11	0.015	0.71	20.64	978.20	2.98	141.23	0.106	5.02	0.65	30.80	0.095	4.50
3877	2.02	0.009	0.44	20.70	1024.75	3.15	155.94	0.100	4.95	0.73	36.14	0.114	5.64
3878	2.17	0.007	0.32	17.01	783.87	2.99	137.79	0.072	3.32	0.75	34.56	0.168	7.74
3879	2.30	0.012	0.52	22.55	980.43	3.45	150.00	0.108	4.70	0.84	36.52	0.082	3.56
3880	2.04	0.018	0.88	20.13	986.76	3.44	168.63	0.113	5.54	0.78	38.24	0.165	8.09
3881a	2.02	0.015	0.74	12.08	598.02	2.43	120.30	0.099	4.90	0.62	30.69	0.107	5.30
3882	2.12	0.022	1.04	20.01	943.87	2.89	136.32	0.084	3.96	0.60	28.30	0.166	7.83
3883	2.17	0.014	0.64	19.20	884.79	3.43	158.06	0.097	4.47	0.87	40.09	0.096	4.42
3884	2.18	0.023	1.06	17.00	779.82	3.16	144.95	0.121	5.55	0.65	29.82	0.118	5.41
3885	2.13	0.026	1.22	15.56	730.52	2.69	126.29	0.118	5.54	0.55	25.82	0.149	7.00
3886 NP													
3887	2.35	0.018	0.76	20.95	891.49	3.42	145.53	0.149	6.34	0.73	31.06	0.094	4.00
3888	2.00	0.019	0.95	21.94	1097.00	3.62	181.00	0.092	4.60	0.83	41.50	0.120	6.00
3889	2.33	0.025	1.07	17.14	735.62	2.74	117.60	0.082	3.52	0.38	16.31	0.100	4.29
3890	2.37	0.023	0.97	18.48	779.75	3.70	156.12	0.089	3.76	0.80	33.76	0.146	6.16

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Dam 3881 was moribund sacrificed on day 9 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 6): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 3					3.0 MG/KG/DAY
3861	2.20	0.033a	1.50	1.27	57.73
3862	2.32	0.028	1.21	1.55	66.81
3863	2.23	0.026a	1.16	1.56	69.96
3864	2.30	0.026	1.13	1.23	53.48
3865	2.33	0.019	0.82	1.44	61.80
3866	2.17	0.029	1.34	1.34	61.75
3867	2.03	0.031	1.53	1.30	64.04
3868	2.18	0.029	1.33	1.33	61.01
3869	2.32	0.027a	1.16	1.29	55.60
3870 NP		0.033	----		
3871 NP		b	----		
3872	2.16	0.034	1.57	1.41	65.28
3873	2.18	0.022	1.01	1.51	69.27
3874 NP		0.023	----		
3875	2.37	0.021	0.89	1.60	67.51
3876	2.11	0.024	1.14	1.35	63.98
3877	2.02	0.026	1.29	1.33	65.84
3878	2.17	0.025	1.15	1.17	53.92
3879	2.30	0.025	1.09	1.24	53.91
3880	2.04	0.024	1.18	1.37	67.16
3881c	2.02	0.028	1.39	1.10	54.46
3882	2.12	0.025	1.18	1.18	55.66
3883	2.17	0.022a	1.01	1.43	65.90
3884	2.18	0.020	0.92	1.30	59.63
3885	2.13	0.019a	0.89	1.07	50.23
3886 NP		0.024	----		
3887	2.35	0.023	0.98	1.29	54.89
3888	2.00	0.015d	0.75d	1.30	65.00
3889	2.33	0.020	0.86	1.25	53.65
3890	2.37	0.021	0.89	1.33	56.12

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).
b. Value was not recorded.
c. Dam 3881 was moribund sacrificed on day 9 of gestation; values excluded from group averages and statistical analyses.
d. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 7): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % BRW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
3891	2.20	0.016	0.73	20.66	939.09	3.26	148.18	0.114	5.18	0.74	33.64	0.108	4.91
3892	1.98	0.015	0.76	16.16	816.16	3.19	161.11	0.112	5.66	0.94	47.47	0.155	7.83
3893	2.27	0.016	0.70	20.78	915.42	3.06	134.80	0.100	4.40	0.53	23.35	0.118	5.20
3894	2.37	0.020	0.84	22.27	939.66	3.45	145.57	0.087	3.67	0.66	27.85	0.137	5.78
3895	2.13	a	----	18.46	866.67	2.83	132.86	0.082	3.85	0.57	26.76	0.146	6.85
3896 NP													
3897	2.20	0.006	0.27	18.54	842.73	3.12	141.82	0.074	3.36	0.71	32.27	0.086	3.91
3898 NP													
3899	2.19	0.003	0.14	15.19	693.61	3.26	148.86	0.066	3.01	0.85	38.81	0.118	5.39
3900	1.98	0.012	0.61	17.79	898.48	3.12	157.58	0.105	5.30	0.72	36.36	0.077	3.89
3901	2.18	0.019	0.87	19.67	902.29	3.08	141.28	0.111	5.09	0.91	41.74	0.191	8.76
3902	2.21	0.012	0.54	20.65	934.39	3.73	168.78	0.114	5.16	0.59	26.70	0.139	6.29
3903 NP													
3904	2.37	0.016	0.68	19.03	802.95	3.11	131.22	0.100	4.22	0.75	31.64	0.126	5.32
3905	2.33	0.023	0.99	15.87	681.12	3.12	133.90	0.089	3.82	0.58	24.89	0.124	5.32
3906	2.12	0.010	0.47	20.03	944.81	3.20	150.94	0.114	5.38	0.87	41.04	0.144	6.79
3907	2.13	0.009	0.42	18.95	889.67	2.87	134.74	0.113	5.30	0.69	32.39	0.173	8.12
3908 NP													
3909 NP													
3910	2.25	0.014	0.62	22.78	1012.44	3.50	155.56	0.101	4.49	0.81	36.00	0.124	5.51
3911	2.05	0.015	0.73	16.32	796.10	2.70	131.71	0.093	4.54	0.51	24.88	0.093	4.54
3912	2.15	0.016	0.74	24.20	1125.58	3.45	160.46	0.113	5.26	0.71	33.02	0.130	6.05
3913	2.19	0.020	0.91	21.53	983.10	3.60	164.38	0.109	4.98	0.95	43.38	0.156	7.12
3914 NP													
3915	2.20	0.013	0.59	22.01	1000.45	3.24	147.27	0.096	4.36	0.67	30.45	0.122	5.54
3916	2.13	0.009	0.42	19.99	938.50	3.19	149.76	0.089	4.18	0.78	36.62	0.100	4.69
3917	2.18	0.020	0.92	21.42	982.57	3.05	139.91	0.111	5.09	0.65	29.82	0.127	5.82
3918	1.86	0.013	0.70	18.22	979.57	3.08	165.59	0.100	5.38	0.66	35.48	0.181	9.73
3919	2.22	0.027	1.22	16.01	721.17	3.45	155.40	0.118	5.32	0.94	42.34	0.140	6.31
3920	2.35	0.029	1.23	18.58	790.64	3.10	131.91	0.081	3.45	0.54	22.98	0.097	4.13

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C50 (PAGE 8): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - P1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 4					30.0 MG/KG/DAY
3891	2.20	0.024	1.09	1.43	65.00
3892	1.98	0.028	1.41	1.48	74.75
3893	2.27	0.033	1.45	1.10	48.46
3894	2.37	0.029	1.22	1.41	59.49
3895	2.13	0.034	1.60	1.28	60.09
3896 NP		0.037	----		
3897	2.20	0.030	1.36	1.50	68.18
3898 NP		0.036	----		
3899	2.19	0.031a	1.42	1.47	67.12
3900	1.98	0.027	1.36	1.54	77.78
3901	2.18	0.033	1.51	1.35	61.93
3902	2.21	0.024	1.08	1.22	55.20
3903 NP		0.028	----		
3904	2.37	0.034a	1.43	1.57	66.24
3905	2.33	0.030	1.29	1.13	48.50
3906	2.12	0.032	1.51	1.41	66.51
3907	2.13	0.030	1.41	1.48	69.48
3908 NP		0.036	----		
3909 NP		0.033	----		
3910	2.25	0.042	1.87	1.42	63.11
3911	2.05	0.032	1.56	1.39	67.80
3912	2.15	0.025a	1.16	1.61	74.88
3913	2.19	0.025	1.14	1.30	59.36
3914 NP		0.035	----		
3915	2.20	0.021	0.95	1.11	50.45
3916	2.13	0.032	1.50	1.51	70.89
3917	2.18	0.032	1.47	1.37	62.84
3918	1.86	0.028	1.50	1.31	70.43
3919	2.22	0.028	1.26	1.43	64.41
3920	2.35	0.033	1.40	1.32	56.17

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
1 0 (CARRIER)	3801	21	ALL PUPS APPEARED NORMAL.
	3802	21	ALL PUPS APPEARED NORMAL.
	3803	21	ALL PUPS APPEARED NORMAL.
	3804	21	ALL PUPS APPEARED NORMAL.
	3805	15	1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3806	1	1 PUP: STILLBORN. PARTIAL CANNIBALIZATION. ALL REMAINING TISSUES APPEARED NORMAL.
		1	2 PUPS: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3807	21	ALL PUPS APPEARED NORMAL.
	3808	21	ALL PUPS APPEARED NORMAL.
	3809	21	ALL PUPS APPEARED NORMAL.
	3810	1	1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	1 PUP: KIDNEYS: RIGHT, PELVIS, MODERATE DILATION. ALL OTHER TISSUES APPEARED NORMAL. 5 PUPS: APPEARED NORMAL.
	3811	21	ALL PUPS APPEARED NORMAL.
	3812	1	1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.
		4	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		5	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3813	21	ALL PUPS APPEARED NORMAL.
	3814	21	ALL PUPS APPEARED NORMAL.
	3815	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
1 (Cont.) 0 (CARRIER)	3816	1	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3818	3	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		4	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3819	21	ALL PUPS APPEARED NORMAL.
	3821	21	ALL PUPS APPEARED NORMAL.
	3822	1	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3823	21	ALL PUPS APPEARED NORMAL.
	3824	21	ALL PUPS APPEARED NORMAL.
	3825	21	ALL PUPS APPEARED NORMAL.
	3826	1	2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3827	21	ALL PUPS APPEARED NORMAL.
	3828	6	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3829	21	ALL PUPS APPEARED NORMAL.
	3830	4	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		5	2 PUPS: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		9	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
2 0.3	3831	21	ALL PUPS APPEARED NORMAL.
	3833	1	2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3834	21	ALL PUPS APPEARED NORMAL.
	3837	21	ALL PUPS APPEARED NORMAL.
	3838	21	ALL PUPS APPEARED NORMAL.
	3842	21	ALL PUPS APPEARED NORMAL.
	3843	21	ALL PUPS APPEARED NORMAL.
	3845	7	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		9	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3846	21	ALL PUPS APPEARED NORMAL.
	3847	21	ALL PUPS APPEARED NORMAL.
	3848	14	1 PUP: MORIBUND SACRIFICED. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3849	21	ALL PUPS APPEARED NORMAL.
	3850	12	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3851	6	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		10	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3852	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
2 (Cont.)			
0.3	3854	1	2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL. 1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3855	21	ALL PUPS APPEARED NORMAL.
	3856	21	ALL PUPS APPEARED NORMAL.
	3857	6	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3858	1	1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	1 PUP: KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL. 5 PUPS: APPEARED NORMAL.
	3859	21	ALL PUPS APPEARED NORMAL.
	3860	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
3 3.0	3861	21	ALL PUPS APPEARED NORMAL.
	3862	5	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3863	21	ALL PUPS APPEARED NORMAL.
	3864	21	ALL PUPS APPEARED NORMAL.
	3865	21	ALL PUPS APPEARED NORMAL.
	3866	21	ALL PUPS APPEARED NORMAL.
	3867	10	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3868	21	ALL PUPS APPEARED NORMAL.
	3869	21	ALL PUPS APPEARED NORMAL.
	3872	21	ALL PUPS APPEARED NORMAL.
	3873	21	ALL PUPS APPEARED NORMAL.
	3875	2	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		4	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3876	21	ALL PUPS APPEARED NORMAL.
	3877	21	ALL PUPS APPEARED NORMAL.
	3878	21	ALL PUPS APPEARED NORMAL.
	3879	21	ALL PUPS APPEARED NORMAL.
	3880	21	ALL PUPS APPEARED NORMAL.
	3882	21	ALL PUPS APPEARED NORMAL.
	3883	21	ALL PUPS APPEARED NORMAL.
	3884	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
3 (Cont.)			
3.0	3885	8	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3887	21	ALL PUPS APPEARED NORMAL.
	3888	1	1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3889	8	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3890	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 7): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
4 30.0	3891	21	ALL PUPS APPEARED NORMAL.
	3892	21	ALL PUPS APPEARED NORMAL.
	3893	21	ALL PUPS APPEARED NORMAL.
	3894	2	2 PUPS: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3895	21	ALL PUPS APPEARED NORMAL.
	3897	21	ALL PUPS APPEARED NORMAL.
	3899	21	ALL PUPS APPEARED NORMAL.
	3900	2	1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3901	21	ALL PUPS APPEARED NORMAL.
	3902	21	ALL PUPS APPEARED NORMAL.
	3904	21	ALL PUPS APPEARED NORMAL.
	3905	21	PUP APPEARED NORMAL.
	3906	4	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	3907	21	ALL PUPS APPEARED NORMAL.
	3910	21	ALL PUPS APPEARED NORMAL.
	3911	21	ALL PUPS APPEARED NORMAL.
	3912	21	1 PUP: KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL.
			5 PUPS: APPEARED NORMAL.
	3913	1	1 PUP: STILLBORN. TONGUE PROTRUDING; MICROAGNATHIA; SHORT SNOUT; EARS LOWSET; LEFT EYELIDS OPEN; SPINA BIFIDA; RIGHT FOREPAW FLEXED. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C51 (PAGE 8): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
4 (Cont.)			
30.0	3915	21	ALL PUPS APPEARED NORMAL.
	3916	21	ALL PUPS APPEARED NORMAL.
	3917	9	1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3918	1	2 PUPS: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	3919	7	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	3 PUPS: KIDNEYS, RIGHT, PELVIS, MODERATE DILATION. ALL OTHER TISSUES APPEARED NORMAL.
			3 PUPS: APPEARED NORMAL.
	3920	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table C47) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 1): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3801	2	1.38	0.14	0.21	0.009	3810	4	1.40	0.17	0.14	0.005
	3	1.45	0.11	0.20	0.001a		6	1.42	0.11	0.14	0.007
	5	1.36	0.16	0.18	0.009		7	1.48	0.10	0.15	0.007
3802b						3811	1	1.43	0.09	0.16	0.005
							5	1.34	0.08	0.12	0.007
							6	1.28	0.08	0.10	0.003c
3803	4	1.58	0.19	0.23	0.009	3812	1	1.49	0.10	0.15	0.009
	8	1.60	0.15	0.16	0.007		7	1.42	0.12	0.19	0.009
	9	1.54	0.14	0.15	0.007		10	1.40	0.09	0.15	0.010
3804	1	1.69	0.19	0.17	0.008	3813	4	1.49	0.15	0.18	0.008
	2	1.62	0.26	0.20	0.008		5	1.49	0.12	0.21	0.006
	4	1.56	0.12	0.16	0.005		7	1.46	0.12	0.16	0.007
3805	1	1.34	0.09	0.11	0.009	3814	1	1.65	0.30	0.30	0.011
	3	1.30	0.07	0.09	0.007		3	1.54	0.21	0.19	0.010
	4	1.37	0.09	0.12	0.009		6	1.59	0.21	0.20	0.009
3806	2	1.64	0.13	0.19	0.008	3815	3	1.63	0.16	0.19	0.008
	3	1.75	0.11	0.16	0.008		6	1.67	0.24	0.31	0.010
	7	1.50	0.13	0.23	0.011		7	1.59	0.16	0.18	0.009
3807	4	1.50	0.12	0.16	0.008	3816	2	1.29	0.14	0.20	0.006
	5	1.41	0.13	0.17	0.006		6	1.45	0.12	0.16	0.004
	6	1.45	0.13	0.15	0.010		7	1.38	0.12	0.17	0.006
3808	3	1.42	0.18	0.23	0.009	3817	NOT PREGNANT				
	4	1.43	0.13	0.17	0.012						
	5	1.44	0.12	0.20	0.008						
3809	2	1.46	0.15	0.16	0.007	3818	3	1.40	0.09	0.14	0.005
	4	1.43	0.12	0.14	0.007		5	1.49	0.13	0.15	0.010
	7	1.45	0.12	0.16	0.007		10	1.47	0.12	0.14	0.008

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

b. No male pups necropsied.

c. Pup 3811-6 had a small left thyroid and isthmus not apparent; value excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 2): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3819	2	1.44	0.22	0.18	0.008	3825	1	1.32	0.08	0.14	0.006
	4	1.47	0.15	0.17	0.009		2	1.43	0.10	0.14	0.007
	7	1.41	0.18	0.16	0.012		4	1.34	0.11	0.17	0.006
3820	NOT PREGNANT					3826	1	1.21	0.04	0.06	0.006
							3	1.44	0.11	0.14	0.007
							6	1.38	0.06	0.11	0.007
3821	3	1.41	0.09	0.22	0.007	3827	2	1.36	0.12	0.15	0.007
	9	1.42	0.09	0.12	0.006		3	1.38	0.11	0.16	0.009
	10	1.48	0.12	0.21	0.008		7	1.36	0.08	0.15	0.005
3822	2	1.45	0.10	0.15	0.006	3828	1	1.22	0.16	0.08	0.007
	3	1.52	0.09	0.15	0.008		2	1.18	0.15	0.12	0.006
							6	1.31	0.16	0.15	0.005
3823	2	1.52	0.16	0.18	0.009	3829	1	1.49	0.13	0.19	a
	3	1.78	0.13	0.16	0.009		3	1.32	0.11	0.17	0.01
	6	1.39	0.17	0.19	0.008		5	1.41	0.15	0.21	0.007
3824	4	1.38	0.14	0.13	0.007	3830	1	1.39	0.18	0.23	0.006
	5	1.39	0.11	0.15	0.009		2	1.58	0.17	0.25	0.009
	6	1.33	0.12	0.21	0.008		4	1.52	0.21	0.28	0.010

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 3): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3831	2	1.46	0.14	0.28	0.011	3840	NOT PREGNANT				
	3	1.50	0.13	0.20	0.011						
3832	NOT PREGNANT					3841	NOT PREGNANT				
3833	2	1.50	0.22	0.22	0.009	3842	2	1.40	0.12	0.14	0.009
	3	1.51	0.22	0.23	0.011a		4	1.37	0.08	0.16	0.008
	5	1.49	0.25	0.23	0.011		6	1.42	0.11	0.14	0.008
3834	1	1.49	0.15	0.20	0.011	3843	4	1.36	0.09	0.11	b
	4	1.47	0.17	0.22	0.013		8	1.60	0.15	0.20	0.008
	6	1.54	0.13	0.21	0.011		9	1.58	0.14	0.16	0.007
3835	NOT PREGNANT					3844	NOT PREGNANT				
3836	NOT PREGNANT					3845	3	1.53	0.12	0.18	0.006
							5	1.54	0.12	0.21	0.007
							9	1.51	0.14	0.18	0.007
3837	1	1.54	0.16	0.23	0.008	3846	2	1.43	0.12	0.17	0.008
	2	1.59	0.19	0.19	0.010		4	1.41	0.10	0.16	0.007
	3c	1.55	0.15	0.24	0.010		5	1.42	0.11	0.14	0.007
3838	2	1.50	0.13	0.16	0.011	3847d					
	5	1.51	0.14	0.17	0.010						
	6	1.46	0.10	0.12	0.007						
3839	NOT PREGNANT					3848	3	1.42	0.11	0.15	0.007
							6	1.43	0.12	0.17	0.008
							10	1.46	0.11	0.13	0.007

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

b. Value was not recorded.

c. Organs for male pup 3837-3 and female pup 3837-10 were saved in the same bottle; values excluded from group averages and statistical analyses.

d. No male pups necropsied.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 4): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3849	2	1.47	0.18	0.21	0.008	3855	1	1.37	0.08	0.13	0.008
	4	1.48	0.15	0.16	0.009		5	1.36	0.07	0.11	0.007
	8	1.46	0.17	0.18	0.010		7	1.40	0.11	0.15	0.008
3850	2	1.48	0.17	0.15	0.009	3856	1	1.30	0.19	0.16	0.010
	3	1.49	0.20	0.16	0.009		3	1.41	0.19	0.22	0.008
	5	1.54	0.18	0.19	0.008						
3851	1	1.30	0.10	0.14	0.005	3857	1	1.33	0.09	0.12	0.007
	3	1.40	0.09	0.12	0.006		3	1.42	0.09	0.13	0.008
	4	1.43	0.11	0.19	0.007		5	1.43	0.09	0.09	0.006
3852	2	1.53	0.10	0.18	0.011	3858	1	1.38	0.11	0.19	0.007
	5	1.58	0.09	0.17	0.008		4	1.32	0.12	0.18	0.007
	6	1.49	0.12	0.19	0.007		5	1.43	0.11	0.12	0.007
3853	NOT PREGNANT					3859	1	1.39	0.14	0.12	0.006
							4	1.38	0.13	0.15	0.007
							5	1.47	0.14	0.23	0.007
3854	4	1.35	0.16	0.20	0.008	3860	2	1.47	0.18	0.24	0.008
	6	1.39	0.16	0.22	0.010		3	1.55	0.21	0.25	0.008
	7	1.50	0.16	0.2[illegible]	0.010		5	1.49	0.20	0.29	0.010

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 5): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 3 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3861	1	1.39	0.11	0.14	0.007	3870	NOT PREGNANT				
	2	1.37	0.14	0.18	0.009						
	5	1.45	0.15	0.17	0.010						
3862	1	1.50	0.15	0.13	0.009	3871	NOT PREGNANT				
	5	1.57	0.15	0.13	0.010						
	6	1.49	0.10	0.15	0.009						
3863	5	1.51	0.14	0.17	0.007	3872	2	1.41	0.18	0.16	0.007
	7	1.45	0.09	0.17	0.007		3	1.44	0.16	0.18	0.008
	8	1.44	0.11	0.13	0.008		6	1.50	0.11	0.15	0.008
3864	3	1.51	0.19	0.22	0.011	3873	3	1.45	0.09	0.14	0.008
	4	1.47	0.16	0.16	0.009		6	1.43	0.10	0.12	0.006
	5	1.50	0.12	0.16	a		7	1.46	0.09	0.14	0.007
3865	1	1.27	0.08	0.10	0.005	3874	NOT PREGNANT				
	2	1.31	0.10	0.11	0.007						
	3	1.32	0.08	0.12	0.005						
3866	1	1.67	0.34	0.37	0.008	3875	1	1.32	0.08	0.13	0.005
	4	1.70	0.32	0.32	0.011		2	1.38	0.10	0.11	0.007
	5	1.69	0.30	0.40	0.011		4	1.32	0.08	0.10	0.006
3867	1	1.30	0.11	0.14	0.006	3876	1	1.46	0.14	0.24	0.012
	2	1.46	0.24	0.18	0.009		3	1.51	0.17	0.20	0.009
	3	1.57	0.21	0.24	0.009		4	1.54	0.11	0.21	0.009
3868	2	1.53	0.21	0.23	0.009	3877	2	1.53	0.15	0.19	0.006
	3	1.52	0.18	0.25	0.008		4	1.53	0.17	0.18	0.010
	4	1.49	0.16	0.21	0.009		5	1.50	0.16	0.21	0.009
3869	1	1.45	0.09	0.13	0.009	3878	3	1.56	0.29	0.24	0.012
	3	1.37	0.06	0.10	0.006		4	1.59	0.25	0.27	0.010
	6	1.37	0.08	0.13	0.007		5	1.67	0.29	0.33	0.013

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 6): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 3 — 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3879	1	1.47	0.14	0.17	0.012a	3885	4	1.40	0.10	0.18	0.007
	5	1.46	0.10	0.15	0.008		8	1.35	0.12	0.21	0.009
	10	1.59	0.10	0.17	0.009		9	1.48	0.18	0.24	0.011
3880	3	1.38	0.10	0.10	0.005	3886	NOT PREGNANT				
	4	1.46	0.13	0.17	0.007						
	6	1.44	0.13	0.16	0.007						
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION					3887	1	1.47	0.10	0.13	0.007
							2	1.41	0.10	0.16	0.006
							5	1.48	0.10	0.13	0.005
3882	1	1.44	0.15	0.22	0.010	3888	2	1.43	0.11	0.13	0.008
	2	1.52	0.24	0.30	0.010		4	1.45	0.12	0.18	0.008
							6	1.55	0.15	0.17	0.011
3883	2	1.44	0.12	0.16	0.008	3889	1	1.50	0.16	0.14	0.006
	3	1.34	0.08	0.08	0.007		2	1.53	0.16	0.14	0.009
	8	1.39	0.10	0.14	0.007		3	1.41	0.09	0.14	0.005
3884	1	1.43	0.16	0.25	0.009	3890	1	1.71	0.29	0.25	0.012
	2	1.49	0.15	0.18	0.011		2	1.65	0.28	0.35	0.015
	3	1.53	0.15	0.28	0.010						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 7): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3891	2	1.41	0.10	0.12	0.007	3900	1	1.47	0.18	0.20	0.019
	3	1.35	0.09	0.14	0.008		4	1.47	0.19	0.25	0.008
	4	1.32	0.08	0.10	0.007		5	1.47	0.18	0.24	0.010
3892a						3901	1	1.57	0.22	0.10	0.008
							2	1.51	0.22	0.19	0.010
							7	1.66	0.25	0.19	0.011
3893	1	1.51	0.15	0.19	0.013	3902	4	1.43	0.09	0.15	0.010
	2	1.47	0.11	0.18	0.011		5	1.48	0.12	0.16	0.008
	4	1.39	0.11	0.19	0.011		7	1.46	0.10	0.16	0.010
3894	1	1.67	0.28	0.23	0.010	3903	NOT PREGNANT				
	3	1.58	0.26	0.29	0.005b						
	4	1.59	0.23	0.25	0.011						
3895	2	1.43	0.11	0.20	0.011	3904	3	1.49	0.11	0.16	0.007
	4	1.40	0.15	0.21	0.011		4	1.50	0.17	0.18	0.009
	6	1.39	0.15	0.21	0.010		8	1.50	0.18	0.12	0.009
3896	NOT PREGNANT					3905	3	1.47	0.21	0.29	0.011
3897	5	1.38	0.08	0.13	0.008	3906	1	1.58	0.16	0.17	0.013
	8	1.46	0.08	0.14	0.006		3	1.51	0.18	0.25	0.014
	10	1.40	0.09	0.15	0.007		4	1.55	0.14	0.16	0.012
3898	NOT PREGNANT					3907	4	1.68	0.20	0.20	c
							6	1.52	0.14	0.13	0.008
							7	1.63	0.24	0.20	0.010
3899	2	1.47	0.13	0.15	0.011	3908	NOT PREGNANT				
	5	1.50	0.15	0.17	0.013						
	7	1.57	0.19	0.19	0.012						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. No male pups necropsied.

b. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

c. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C52 (PAGE 8): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3909	NOT PREGNANT					3915	2	1.43	0.15	0.19	0.010
							7	1.41	0.13	0.19	0.012
							8	1.39	0.10	0.20	0.010
3910	1	1.45	0.10	0.15	0.012	3916	1	1.45	0.11	0.15	0.008
	2	1.49	0.15	0.24	0.014		3	1.42	0.10	0.16	0.008
	4	1.46	0.16	0.26	0.012		5	1.47	0.10	0.12	0.012
3911	1	1.48	0.18	0.21	0.014	3917	1	1.44	0.16	0.22	0.012
	5	1.51	0.18	0.15	0.010		4	1.44	0.18	0.24	0.009
	8	1.44	0.17	0.19	0.011		5	1.41	0.18	0.24	0.010
3912	1	1.52	0.13	0.11	0.010	3918	3	1.34	0.09	0.08	0.009
	6	1.46	0.14	0.13	0.008		7	1.34	0.10	0.14	0.009
	7	1.48	0.15	0.17	0.008		8	1.32	0.10	0.12	0.011
3913	4	1.42	0.13	0.14	0.007	3919	2	1.46	0.16	0.17	0.008
	5	1.33	0.09	0.15	0.010		6	1.57	0.20	0.21	0.010
	7	1.33	0.10	0.18	0.009		8	1.56	0.26	0.30	0.010
3914	NOT PREGNANT					3920	6	1.47	0.16	0.17	0.013
							7	1.44	0.15	0.21	0.013
							8	1.54	0.19	0.20	0.013

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

TABLE C53 (PAGE 1): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3801	11	1.42	0.16	0.19	0.009	3810	9	1.41	0.13	0.18	0.009
	12	1.36	0.11	0.20	0.008		10	1.40	0.14	0.18	0.010
	15	1.21	0.12	0.20	0.008		14	1.47	0.16	0.17	0.008
3802	3	1.59	0.43	0.35	0.012	3811	11	1.31	0.08	0.18	0.007
	4	1.56	0.37	0.34	0.011		12	1.38	0.11	0.14	0.006
							14	1.30	0.08	0.12	0.005
3803	12	1.60	0.15	0.16	0.007	3812	13	1.39	0.08	0.12	0.009
	13	1.69	0.13	0.20	0.008		15	1.41	0.10	0.13	0.009
	17	1.58	0.13	0.20	0.007		17	1.37	0.08	0.14	0.010
3804	9	1.50	0.14	0.16	0.006	3813	9	1.36	0.10	0.18	0.007
	10	1.50	0.14	0.14	0.007		10	1.50	0.15	0.15	0.007
	13	1.66	0.16	0.13	0.006		11	1.52	0.15	0.26	0.009
3805	11	1.32	0.05	0.09	0.002a	3814	7	1.51	0.21	0.26	0.011
	14	1.36	0.09	0.12	0.008		8	1.60	0.23	0.30	0.011
	15	1.34	0.09	0.11	0.007		11	1.58	0.23	0.23	0.010
3806	12	1.48	0.11	0.22	0.007	3815	12	1.51	0.15	0.05	0.008
	13	1.40	0.13	0.23	0.009		15	1.55	0.19	0.21	0.016
	16	1.58	0.11	0.18	0.009		17	1.60	0.14	0.17	0.010
3807	8	1.40	0.12	0.18	0.010	3816	8	1.37	0.16	0.22	0.007
	10	1.35	0.09	0.13	0.006		10	1.24	0.10	0.12	0.008
	14	1.42	0.09	0.16	0.008		11	1.33	0.12	0.19	0.006
3808	6	1.41	0.11	0.21	0.008	3817	NOT PREGNANT				
	10	1.38	0.13	0.20	0.009						
	12	1.40	0.14	0.19	0.008						
3809	10	1.42	0.13	0.18	0.006	3818	15	1.35	0.11	0.17	0.009
	12	1.41	0.11	0.17	0.006		17	1.36	0.08	0.15	0.007
	14	1.39	0.11	0.16	0.008		18	1.40	0.08	0.12	0.006

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C53 (PAGE 2): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3819	9	1.45	0.18	0.17	0.007	3825	8	1.34	0.08	0.14	0.008
	10	1.48	0.21	0.18	0.011		9	1.31	0.07	0.15	0.007
	11	1.42	0.19	0.21	0.009		15	1.31	0.11	0.17	0.009
3820	NOT PREGNANT					3826	11	1.46	0.09	0.13	0.007
							14	1.42	0.08	0.15	0.007
							17	1.44	0.05	0.16	0.007
3821	12	1.42	0.07	0.16	0.006	3827	9	1.37	0.11	0.14	0.007
	13	1.40	0.09	0.17	0.006		13	1.34	0.12	0.15	0.006
	15	1.45	0.08	0.26	0.007		14	1.44	0.11	0.15	0.006
3822	4	1.40	0.06	0.15	0.009	3828	10	1.18	0.15	0.18	0.007
	9	1.46	0.10	0.15	0.008		11	1.20	0.16	0.13	0.008
	14	1.44	0.08	0.11	0.008		12	1.11	0.15	0.11	0.006
3823	8	1.56	0.18	0.21	0.007	3829	7	1.43	0.19	0.22	0.011
	10	1.43	0.21	0.22	0.009		8	1.44	0.12	0.16	0.009
	11	1.48	0.16	0.20	0.010		9	1.44	0.17	0.24	0.009
3824	10	1.33	0.13	0.18	0.007	3830	9	1.31	0.18	0.24	0.008
	12	1.40	0.15	0.19	0.008		10	1.34	0.17	0.27	0.011
	13	1.42	0.12	0.17	0.007						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C53 (PAGE 3): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3831	6	1.42	0.13	0.21	0.012	3840	NOT PREGNANT				
	8	1.52	0.14	0.25	0.012						
	10	1.42	0.21	0.22	0.012						
3832	NOT PREGNANT					3841	NOT PREGNANT				
3833	9	1.37	0.26	0.27	0.009a	3842	9	1.34	0.08	0.10	0.008
	10	1.43	0.31	0.24	0.010		12	1.39	0.12	0.19	0.009
	14	1.98	0.21	0.24	0.010		16	1.40	0.12	0.18	0.010
3834	10	1.44	0.15	0.21	0.007	3843	15	1.49	0.15	0.13	b
	11	1.47	0.20	0.21	0.010		17	1.55	0.12	0.23	0.009
	14	1.41	0.12	0.19	0.007		18	1.43	0.11	0.10	0.012
3835	NOT PREGNANT					3844	NOT PREGNANT				
3836	NOT PREGNANT					3845	13	1.59	0.08	0.17	0.007a
							16	1.64	0.13	0.18	0.010
							18	1.61	0.10	0.20	0.006
3837	8	1.44	0.20	0.26	0.008	3846	10	1.40	0.10	0.10	0.007
	9	1.51	0.23	0.24	0.009		14	1.33	0.10	0.14	0.009
	10c	1.42	0.16	0.21	0.011		17	1.39	0.11	0.14	0.008
3838	11	1.49	0.14	0.17	0.011	3847	4	1.54	0.25	0.31	0.013
	12	1.46	0.18	0.11	0.009		5	1.59	0.24	0.27	0.010
	13	1.46	0.14	0.20	0.010						
3839	NOT PREGNANT					3848	12	1.42	0.09	0.17	0.007
							13	1.38	0.14	0.19	0.006
							16	1.43	0.15	0.16	0.007

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

b. Value was not recorded.

c. Organs for male pup 3837-3 and female pup 3837-10 were saved in the same bottle; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C53 (PAGE 4): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3849	9	1.38	0.15	0.20	0.007	3855	11	1.23	0.06	0.06	0.005
	10	1.43	0.15	0.17	0.010		12	1.26	0.06	0.07	0.007
							17	1.32	0.09	0.13	0.008
3850	10	1.50	0.22	0.19	a	3856	6	1.22	0.16	0.19	0.008
	11	1.51	0.17	0.17	0.009		8	1.38	0.23	0.23	0.013
	15	1.39	0.15	0.10	0.006		9	1.35	0.22	0.21	0.009
3851	8	1.35	0.12	0.18	0.008	3857	12	1.41	0.14	0.13	0.011
	12	1.37	0.11	0.16	0.008		13	1.52	0.14	0.20	0.011
	15	1.37	0.10	0.18	0.007		16	1.48	0.13	0.15	0.006
3852	9	1.34	0.11	0.13	0.007	3858	8	1.32	0.10	0.18	0.007
	14	1.48	0.12	0.17	0.008		9	1.28	0.14	0.18	0.008
	15	1.41	0.10	0.14	0.008		12	1.30	0.12	0.20	0.007
3853	NOT PREGNANT					3859	9	1.47	0.15	0.21	0.007
							13	1.48	0.20	0.28	0.010
							15	1.30	0.10	0.17	0.007
3854	11	1.55	0.15	0.23	0.010	3860	9	1.49	0.21	0.21	0.007
	14	1.52	0.19	0.26	0.011		10	1.46	0.19	0.26	0.012
							11	1.41	0.17	0.22	0.007

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C53 (PAGE 5): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 3 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3861	8	1.30	0.10	0.14	0.008	3870	NOT PREGNANT				
	10	1.38	0.11	0.16	0.008						
	15	1.42	0.12	0.16	0.008						
3862	11	1.56	0.16	0.23	0.010	3871	NOT PREGNANT				
	12	1.33	0.13	0.14	0.008						
	15	1.53	0.14	0.21	0.007						
3863	11	1.34	0.10	0.13	0.006	3872	10	1.41	0.10	0.11	0.006
	14	1.41	0.11	0.16	0.008		11	1.64	0.12	0.17	0.006
	15	1.41	0.10	0.15	0.007		15	1.33	0.08	0.11	0.009
3864	12	1.41	0.14	0.18	0.012	3873	9	1.32	0.07	0.09	0.006
	14	1.43	0.14	0.18	a		12	1.37	0.08	0.14	0.007
	15	1.48	0.15	0.16	0.012		14	1.35	0.07	0.12	0.006
3865	10	1.31	0.11	0.15	0.007	3874	NOT PREGNANT				
	12	1.47	0.12	0.16	0.006						
	17	1.40	0.13	0.18	0.008						
3866	8	1.62	0.35	0.32	0.011	3875	10	1.38	0.11	0.17	0.006
	9	1.60	0.34	0.25	0.009		12	1.37	0.09	0.15	0.007
	11	1.75	0.35	0.30	0.008						
3867	10	1.53	0.20	0.16	0.009	3876	8	1.55	0.13	0.25	0.012
	11	1.33	0.13	0.11	0.008		10	1.41	0.14	0.19	0.009
	13	1.40	0.18	0.20	0.010		12	1.45	0.15	0.21	0.008
3868	8	1.49	0.15	0.22	0.010	3877	8	1.51	0.16	0.23	0.009
	9	1.45	0.18	0.23	0.012		9	1.54	0.17	0.27	0.010
	10	1.52	0.18	0.24	0.010		11	1.60	0.16	0.20	0.080b
3869	13	1.39	0.08	0.13	0.007	3878c					
	14	1.14	0.04	0.07	0.005						
	17	1.42	0.08	0.14	0.009						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Value was not recorded.

b. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.

c. No female pups necropsied.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C53 (PAGE 6): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 3 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3879	13	1.39	0.08	0.16	0.008	3885	12	1.41	0.14	0.17	0.009
	14	1.36	0.10	0.20	0.006		13	1.40	0.13	0.11	0.007
	15	1.41	0.11	0.16	0.009						
3880	12	1.40	0.16	0.15	a	3886	NOT PREGNANT				
	14	1.46	0.16	0.25	0.010						
	15	1.47	0.16	0.22	0.009						
3881	MORIBUND SACRIFICED ON DAY 9 OF GESTATION					3887	6	1.30	0.05	0.12	0.005
							14	1.35	0.08	0.13	0.005
							16	1.45	0.09	0.14	0.005
3882	4	1.49	0.19	0.25	0.009	3888	8	1.38	0.12	0.13	0.008
	6	1.46	0.22	0.26	0.011		10	1.37	0.12	0.15	0.007
	7	1.44	0.22	0.26	0.012		15	1.41	0.15	0.17	0.009
3883	9	1.32	0.11	0.18	0.007	3889	12	1.38	0.12	0.09	0.006
	11	1.52	0.10	0.13	0.007		13	1.36	0.10	0.13	0.005
	12	1.25	0.14	0.16	0.007		15	1.34	0.08	0.11	0.008
3884	7	1.47	0.19	0.18	0.014	3890	4	1.63	0.32	0.34	0.013
	8	1.49	0.19	0.25	0.010		5	1.57	0.34	0.37	0.011
	11	1.51	0.20	0.28	0.011						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Value was not recorded.

TABLE C53 (PAGE 7): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3891	9	1.37	0.14	0.16	0.011	3900	7	1.42	0.16	0.22	0.009
	15	1.36	0.10	0.14	0.009		8	1.43	0.16	0.25	0.010
	16	1.27	0.12	0.15	0.009		12	1.41	0.25	0.24	0.008
3892	2	1.42	0.18	0.21	0.009	3901	10	1.58	0.19	0.24	0.010
							11	1.49	0.19	0.19	0.010a
							15	1.53	0.26	0.25	0.010
3893	5	1.43	0.13	0.19	0.012	3902	9	1.32	0.06	0.10	0.009
	9	1.43	0.14	0.15	0.011		10	1.31	0.07	0.14	0.007
	10	1.37	0.09	0.22	0.013		14	1.46	0.10	0.13	0.008
3894	8	1.58	0.23	0.21	0.010	3903	NOT PREGNANT				
	10	1.51	0.26	0.27	0.010						
	12	1.50	0.20	0.25	0.010						
3895	9	1.32	0.11	0.18	0.011	3904	12	1.47	0.15	0.16	0.010
	11	1.29	0.10	0.16	0.012		13	1.43	0.16	0.13	0.010
	13	1.27	0.13	0.17	0.011		14	1.54	0.19	0.19	0.011
3896	NOT PREGNANT					3905b					
3897	12	1.35	0.08	0.13	0.007	3906	7	1.38	0.11	0.19	0.012
	14	1.34	0.09	0.16	0.007		9	1.40	0.14	0.19	0.013
	15	1.33	0.09	0.16	0.008		13	1.50	0.18	0.22	0.012
3898	NOT PREGNANT					3907	8	1.60	0.20	0.14	0.009
							12	1.54	0.16	0.13	0.011
							14	1.42	0.17	0.13	0.009
3899	10	1.55	0.16	0.17	0.014	3908	NOT PREGNANT				
	11	1.47	0.15	0.17	0.011						
	13	1.54	0.19	0.19	0.014						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

b. No female pups necropsied.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE C53 (PAGE 8): ORGAN WEIGHTS - INDIVIDUAL DATA - F1 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
3909	NOT PREGNANT					3915	9	1.33	0.14	0.20	0.008
							10	1.38	0.15	0.24	0.010
							12	1.36	0.14	0.20	0.010
3910	8	1.45	0.15	0.28	0.013	3916	7	1.42	0.10	0.12	0.007
	10	1.46	0.17	0.30	0.011		9	1.37	0.10	0.16	0.007
	11	1.49	0.16	0.24	0.009		14	1.35	0.09	0.11	0.007
3911	9	1.39	0.13	0.16	0.008	3917	7	1.48	0.14	0.23	0.011
	11	1.44	0.14	0.18	0.012		9	1.45	0.19	0.28	0.010
	13	1.44	0.17	0.23	0.015		14	1.56	0.19	0.29	0.013
3912	11	1.53	0.16	0.18	0.009	3918	12	1.30	0.09	0.12	0.011
	12	1.41	0.13	0.15	0.009		16	1.34	0.11	0.16	0.010
	13	1.44	0.13	0.14	0.009		18	1.38	0.14	0.16	0.006
3913	9	1.28	0.10	0.13	0.009	3919	9	1.51	0.24	0.22	0.008
	10	1.31	0.08	0.15	0.008		12	1.63	0.28	0.27	0.009
	11	1.34	0.09	0.17	0.010		16	1.52	0.20	0.20	0.009
3914	NOT PREGNANT					3920	10	1.47	0.17	0.18	0.013
							12	1.50	0.14	0.18	0.013
							13	1.44	0.18	0.19	0.016

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

APPENDIX D

REPORT TABLES - F1 GENERATION MALE RATS

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D1 (PAGE 1): CONSUMED DOSAGES (MG/KG/DAY) - OBSERVATION PERIOD - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)a		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (MG/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	2.7 ± 0.4	27.0 ± 4.1
DAYS 8 - 15	MEAN±S.D.	0.0 ± 0.0	0.2 ± 0.0	2.3 ± 0.2	23.1 ± 2.2
DAYS 15 - 22	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	3.1 ± 0.3	32.5 ± 2.7
DAYS 22 - 29	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	3.4 ± 0.4 [29]b	34.8 ± 4.1
DAYS 29 - 36	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0 [29]b	3.3 ± 0.4	31.5 ± 4.5
DAYS 36 - 43	MEAN±S.D.	0.0 ± 0.0 [29]b	0.3 ± 0.0 [29]b	2.8 ± 0.4 [29]b	28.0 ± 4.9
DAYS 43 - 50	MEAN±S.D.	0.0 ± 0.0 [29]b	0.3 ± 0.1	2.7 ± 0.4	27.8 ± 4.8
DAYS 50 - 57	MEAN±S.D.	0.0 ± 0.0 [28]b	0.3 ± 0.0 [29]b	2.8 ± 0.5	27.4 ± 4.9
DAYS 57 - 64c	MEAN±S.D.	0.0 ± 0.0 [29]b	0.3 ± 0.1 [29]b	2.9 ± 0.5	27.4 ± 4.3 [28]b
DAYS 1 - 64c	MEAN±S.D.	0.0 ± 0.0 [29]b	0.3 ± 0.0 [29]b	2.8 ± 0.3	26.9 ± 2.6 [28]b
DAYS 99 -106	MEAN±S.D.	0.0 ± 0.0 [28]b	0.3 ± 0.1	2.8 ± 0.5 [28]b	28.3 ± 4.9 [28]d
DAYS 106 -113	MEAN±S.D.	0.0 ± 0.0 [29]b	0.3 ± 0.0 [28]b	2.8 ± 0.5 [28]b	29.6 ± 5.5 [26]b,d
DAYS 113 -120	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	3.0 ± 0.4 [28]b	29.1 ± 7.6 [26]b,d
DAYS 120 -127	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0 [29]b	2.7 ± 0.6	29.4 ± 5.4 [28]d
DAYS 1 -127	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0 [29]b	2.7 ± 0.4	26.5 ± 3.7 [28]d

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED

a. The actual dosage was calculated by averaging the concentrations used during each interval then rounding to one decimal place.
b. Excludes values that could not be calculated as well as those associated with spillage or presumed spillage.
c. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a water consumption value was recorded in the youngest rats.
d. Excludes values for rats that were found dead.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D2 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
MAXIMUM POSSIBLE INCIDENCE	4136/ 30	4170/ 30	4166/ 30	4060/ 30
FOUND DEAD	0	0	0	3**a-c
CHROMORHINORRHEA	39/ 16	47/ 17	56/ 16	46/ 14
LESION d	38/ 3	73/ 4	53/ 3	224/ 7
INCISORS: TOTAL	364/ 6	297/ 5	295/ 4	121/ 5
MISALIGNED	324/ 6	274/ 3	278/ 4	105/ 4
MISSING/BROKEN	199/ 5	146/ 5	154/ 4	103/ 4
LOCALIZED ALOPECIA: TOTAL	7/ 1	94/ 3	9/ 3	63/ 4
NECK	7/ 1	75/ 2	5/ 1	17/ 2
BACK	0/ 0	0/ 0	4/ 2	10/ 1
LIMBS	0/ 0	19/ 1	0/ 0	33/ 1
HEAD	0/ 0	0/ 0	0/ 0	3/ 1
SOFT OR LIQUID FECES	2/ 1	3/ 3	2/ 2	4/ 3
CHROMODACRYORRHEA	23/ 5	19/ 4	60/ 4	95/ 2
RIGHT FOREPAW: FOURTH DIGIT BENT	0/ 0	0/ 0	0/ 0	86/ 1
CORNEAL OPACITY e	0/ 0	0/ 0	0/ 0	84/ 1
CONVULSION	0/ 0	0/ 0	0/ 0	1/ 1b
BACK: SCAB	0/ 0	0/ 0	18/ 1	0/ 0
EARS: SWOLLEN AND PURPLE	0/ 0	1/ 1	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 7111 was found dead on day 131 postweaning.
b. Rat 7113 was found dead on day 95 postweaning.
c. Rat 7115 was found dead on day 82 postweaning.
d. Located on the neck, back, head or mouth.
e. Lenticular opacity confirmed at necropsy.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D3 (PAGE 1): BODY WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT (G)					
DAY 1	MEAN±S.D.	42.7 ± 8.5	46.2 ± 7.1	46.4 ± 10.5	45.6 ± 7.0
DAY 8	MEAN±S.D.	87.1 ± 14.2	91.4 ± 9.1	92.1 ± 15.0	89.3 ± 11.5
DAY 15	MEAN±S.D.	145.1 ± 21.1	151.8 ± 12.9	154.7 ± 20.6	150.6 ± 15.9
DAY 22	MEAN±S.D.	208.3 ± 25.2	220.1 ± 14.8	218.1 ± 25.6	215.2 ± 19.6
DAY 29	MEAN±S.D.	269.6 ± 30.6	284.4 ± 18.7	284.5 ± 31.1	280.6 ± 24.8
DAY 36	MEAN±S.D.	333.3 ± 34.3	348.5 ± 20.4	348.4 ± 36.3	344.2 ± 27.5
DAY 43	MEAN±S.D.	380.2 ± 35.0	399.6 ± 22.0	397.6 ± 37.4	394.6 ± 29.8
DAY 50	MEAN±S.D.	419.8 ± 38.2	440.4 ± 25.6	434.7 ± 43.2	430.5 ± 29.8
DAY 57	MEAN±S.D.	448.9 ± 41.2	476.6 ± 29.1	470.1 ± 45.9	464.5 ± 31.2
DAY 64	MEAN±S.D.	473.4 ± 48.6	505.0 ± 33.0**	496.3 ± 48.8	488.2 ± 36.0
PRECOHABITATION BODY WEIGHT a	MEAN±S.D.	521.8 ± 59.8	561.2 ± 38.8*	550.2 ± 58.3	542.1 ± 38.1
DAY 71	MEAN±S.D.	494.3 ± 53.8	527.4 ± 37.0*	519.9 ± 54.0*	509.5 ± 39.9
DAY 78b	MEAN±S.D.	516.9 ± 56.9	551.0 ± 37.6	538.1 ± 57.3	532.5 ± 42.2
DAY 85	MEAN±S.D.	527.6 ± 56.9	560.9 ± 37.8	548.2 ± 56.4	538.9 ± 41.3 [29]c

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.
b. Day 78 postweaning was the first day on which the youngest rats had a body weight value recorded after cohabitation.
c. Excludes values for rats that were found dead.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D3 (PAGE 2): BODY WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	30	30	29a
BODY WEIGHT (G)					
DAY 92	MEAN±S.D.	542.9 ± 59.0	581.9 ± 40.8*	568.8 ± 59.5	554.9 ± 40.6
DAY 99	MEAN±S.D.	557.1 ± 61.8	597.5 ± 45.4**	584.8 ± 61.5	567.6 ± 44.2 [28]a
DAY 106	MEAN±S.D.	563.7 ± 63.6	608.7 ± 48.1**	597.7 ± 63.3*	580.6 ± 46.4 [28]a
DAY 113	MEAN±S.D.	577.4 ± 67.9	623.5 ± 48.9**	607.0 ± 62.3	592.1 ± 47.0 [28]a
DAY 120	MEAN±S.D.	585.7 ± 69.8	631.6 ± 50.6**	617.8 ± 70.6	602.9 ± 49.2 [28]a
DAY 127	MEAN±S.D.	595.1 ± 71.4	641.1 ± 54.7**	629.0 ± 71.3	609.8 ± 50.7 [28]a
TERMINAL BODY WEIGHT b	MEAN±S.D.	617.2 ± 76.1	664.6 ± 58.2*	652.6 ± 74.4	638.0 ± 48.8 [27]a

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead.
b. Terminal body weights were recorded when the rats were 151 to 161 days of age.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D4 (PAGE 1): BODY WEIGHT CHANGES - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT CHANGE (G)					
DAYS 1 - 8	MEAN±S.D.	+44.4 ± 7.3	+45.2 ± 4.5	+45.7 ± 5.6	+43.7 ± 6.2
DAYS 8 - 15	MEAN±S.D.	+58.0 ± 8.6	+60.4 ± 5.7	+62.6 ± 7.7	+61.3 ± 6.1
DAYS 15 - 22	MEAN±S.D.	+63.2 ± 6.4	+68.3 ± 5.0**	+63.3 ± 7.6	+64.6 ± 5.3
DAYS 22 - 29	MEAN±S.D.	+61.3 ± 7.8	+64.3 ± 6.1	+66.4 ± 6.5**	+65.4 ± 7.1*
DAYS 29 - 36	MEAN±S.D.	+63.7 ± 7.2	+64.2 ± 6.9	+63.9 ± 7.8	+63.6 ± 6.6
DAYS 36 - 43	MEAN±S.D.	+46.8 ± 9.1	+51.1 ± 10.8	+49.2 ± 10.0	+50.4 ± 6.6
DAYS 43 - 50	MEAN±S.D.	+39.6 ± 9.3	+40.8 ± 9.8	+37.1 ± 11.1	+35.9 ± 7.0
DAYS 50 - 57	MEAN±S.D.	+29.1 ± 10.0	+36.3 ± 6.4**	+35.4 ± 6.6*	+34.0 ± 4.8
DAYS 57 - 64	MEAN±S.D.	+24.6 ± 10.1	+28.4 ± 7.3	+26.1 ± 8.9	+23.7 ± 8.0
DAYS 64 - 71	MEAN±S.D.	+20.9 ± 9.0	+22.4 ± 9.2	+23.6 ± 8.0	+21.4 ± 8.5
DAYS 71 - 78a	MEAN±S.D.	+22.6 ± 8.3	+23.6 ± 7.7	+18.2 ± 9.7	+22.9 ± 6.5
DAYS 78a- 85	MEAN±S.D.	+10.7 ± 8.2	+9.9 ± 9.5	+10.1 ± 13.1	+8.6 ± 5.7 [29]b
DAYS 85 - 92	MEAN±S.D.	+15.3 ± 7.4	+21.0 ± 8.2*	+20.6 ± 8.5*	+16.0 ± 7.6 [29]b
DAYS 92 - 99	MEAN±S.D.	+14.2 ± 7.9	+15.6 ± 8.8	+16.0 ± 12.2	+13.2 ± 6.8 [28]b
DAYS 99 -106	MEAN±S.D.	+6.6 ± 11.9	+11.2 ± 9.7	+12.9 ± 13.0	+13.0 ± 10.1 [28]b

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Day 78 postweaning was the first day on which the youngest rats had a body weight value recorded after cohabitation.
b. Excludes values for rats that were found dead.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D4 (PAGE 2): BODY WEIGHT CHANGES - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT CHANGE (G)					
DAYS 106 -113	MEAN±S.D.	+13.8 ± 14.7	+14.9 ± 7.9	+9.2 ± 7.3	+11.5 ± 11.1 [28]a
DAYS 113 -120	MEAN±S.D.	+8.2 ± 8.7	+8.1 ± 9.2	+10.9 ± 13.9	+10.8 ± 14.8 [28]a
DAYS 120 -127	MEAN±S.D.	+9.5 ± 10.4	+9.5 ± 11.0	+11.1 ± 25.4	+6.8 ± 14.8 [28]a
DAYS 1 -127	MEAN±S.D.	+552.4 ± 69.0	+594.9 ± 55.3*	+582.6 ± 65.8	+564.6 ± 48.6 [28]a
DAYS 1 - PRECOHABITATION a	MEAN±S.D.	+479.1 ± 57.3	+515.0 ± 38.5*	+503.8 ± 51.2	+496.5 ± 34.8
DAYS 1 - TERMINATION c	MEAN±S.D.	+574.5 ± 73.7	+618.4 ± 59.1	+606.2 ± 68.3	+592.4 ± 47.6 [27]b

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.
b. Excludes values for rats that were found dead.
c. Terminal body weights were recorded when the rats were 151 to 161 days of age.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D5 (PAGE 1): ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/DAY)					
DAYS 1 - 8	MEAN±S.D.	19.6 ± 3.4	19.5 ± 2.5	19.7 ± 2.9	19.4 ± 2.8
DAYS 8 - 15	MEAN±S.D.	27.4 ± 3.7	27.0 ± 2.5	27.8 ± 3.6	27.7 ± 3.6
DAYS 15 - 22	MEAN±S.D.	36.6 ± 5.0	36.2 ± 2.6	36.0 ± 4.0	36.9 ± 3.6
DAYS 22 - 29	MEAN±S.D.	41.4 ± 5.9	40.3 ± 4.2	40.2 ± 5.2 [29]a	41.1 ± 4.5
DAYS 29 - 36	MEAN±S.D.	45.6 ± 6.6	43.7 ± 5.1 [29]a	45.5 ± 7.0	45.6 ± 6.6
DAYS 36 - 43	MEAN±S.D.	48.3 ± 7.4 [29]a	45.9 ± 5.6 [29]a	48.0 ± 7.9 [29]a	48.1 ± 7.6
DAYS 43 - 50	MEAN±S.D.	48.2 ± 8.7 [29]a	45.7 ± 7.4	47.1 ± 7.3	47.7 ± 8.2
DAYS 50 - 57	MEAN±S.D.	47.9 ± 9.0 [28]a	45.6 ± 7.1 [29]a	47.2 ± 8.4	46.7 ± 8.1
DAYS 57 - 64b	MEAN±S.D.	49.7 ± 8.3 [29]a	47.1 ± 8.7 [29]a	47.4 ± 8.5	45.4 ± 7.8 [28]a
DAYS 1 - 64b	MEAN±S.D.	40.5 ± 5.2 [29]a	38.9 ± 3.7 [29]a	39.8 ± 5.3	39.2 ± 4.1 [28]a
DAYS 99 -106	MEAN±S.D.	45.3 ± 8.5 [28]a	44.1 ± 9.0	45.0 ± 8.2 [28]a	43.0 ± 7.9 [28]c
DAYS 106 -113	MEAN±S.D.	48.2 ± 10.1 [29]a	42.8 ± 7.2 [28]a	44.2 ± 7.8 [28]a	43.4 ± 8.8 [26]a,c
DAYS 113 -120	MEAN±S.D.	46.8 ± 11.2	43.5 ± 9.3	45.5 ± 6.7 [28]a	42.7 ± 11.3 [26]a,c
DAYS 120 -127	MEAN±S.D.	44.6 ± 11.0	42.0 ± 7.1 [29]a	43.8 ± 10.7	42.5 ± 8.4 [28]c
DAYS 1 -127	MEAN±S.D.	43.2 ± 6.2	41.2 ± 4.9 [29]a	42.6 ± 6.1	41.7 ± 6.0 [28]c

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that could not be calculated as well as those associated with spillage or presumed spillage.
b. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a water consumption value was recorded in the youngest rats.
c. Excludes values for rats that were found dead.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D6 (PAGE 1): RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	305.4 ± 47.2	285.6 ± 41.0	288.5 ± 43.6	290.2 ± 44.2
DAYS 8 - 15	MEAN±S.D.	237.8 ± 26.3	223.0 ± 18.4	226.9 ± 22.4	231.7 ± 21.7
DAYS 15 - 22	MEAN±S.D.	208.5 ± 24.6	195.6 ± 17.1*	194.1 ± 17.7**	202.4 ± 16.9
DAYS 22 - 29	MEAN±S.D.	174.1 ± 20.6	160.2 ± 16.2**	160.8 ± 18.0* [29]a	166.4 ± 19.6
DAYS 29 - 36	MEAN±S.D.	152.0 ± 20.5	138.4 ± 15.2 [29]a	144.4 ± 19.8	146.2 ± 20.9
DAYS 36 - 43	MEAN±S.D.	135.6 ± 18.9 [29]a	123.0 ± 15.0 [29]a	129.7 ± 17.9 [29]a	130.8 ± 22.8
DAYS 43 - 50	MEAN±S.D.	120.6 ± 20.3 [29]a	108.8 ± 16.6	113.9 ± 18.0	115.9 ± 20.2
DAYS 50 - 57	MEAN±S.D.	110.4 ± 20.7 [28]a	99.8 ± 14.3 [29]a	104.6 ± 17.7	104.6 ± 18.7
DAYS 57 - 64b	MEAN±S.D.	107.9 ± 16.2 [29]a	96.0 ± 17.6* [29]a	98.6 ± 17.8*	95.1 ± 14.9** [28]a
DAYS 1 - 64b	MEAN±S.D.	144.3 ± 15.5 [29]a	131.3 ± 12.5** [29]a	135.8 ± 16.3*	134.8 ± 12.9* [28]a
DAYS 99 -106	MEAN±S.D.	81.0 ± 13.8 [28]a	73.4 ± 15.0	75.8 ± 12.7 [28]a	75.0 ± 13.0 [28]c
DAYS 106 -113	MEAN±S.D.	84.6 ± 16.5 [29]a	70.1 ± 12.2** [28]a	73.1 ± 12.5** [28]a	73.3 ± 13.7** [26]a,c
DAYS 113 -120	MEAN±S.D.	80.5 ± 18.4	69.5 ± 14.0*	73.9 ± 9.8 [28]a	71.5 ± 18.8* [26]a,c
DAYS 120 -127	MEAN±S.D.	75.8 ± 17.7	65.9 ± 10.8 [29]a	70.3 ± 16.4	70.1 ± 12.8 [28]c
DAYS 1 -127	MEAN±S.D.	106.0 ± 13.2	94.2 ± 10.7** [29]a	99.8 ± 14.6	99.6 ± 13.9 [28]c

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that could not be calculated as well as those associated with spillage or presumed spillage.
b. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a water consumption value was recorded in the youngest rats.
c. Excludes values for rats that were found dead.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D7 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
FEED CONSUMPTION (G/DAY)					
DAYS 1 - 8	MEAN±S.D.	13.7 ± 1.7 [29]a	13.8 ± 1.5	14.3 ± 1.8	13.5 ± 1.6
DAYS 8 - 15	MEAN±S.D.	20.0 ± 2.4	20.4 ± 1.6	20.6 ± 2.3	20.8 ± 2.6
DAYS 15 - 22	MEAN±S.D.	25.4 ± 2.7	26.3 ± 1.5	26.1 ± 2.5	25.9 ± 2.4
DAYS 22 - 29	MEAN±S.D.	29.0 ± 3.3 [29]a	29.7 ± 2.2	30.1 ± 2.9	29.8 ± 3.1
DAYS 29 - 36	MEAN±S.D.	31.4 ± 2.6 [28]a	32.5 ± 2.5 [28]a	32.7 ± 3.1 [29]a	32.2 ± 3.0
DAYS 36 - 43	MEAN±S.D.	32.8 ± 3.1 [29]a	33.9 ± 2.6 [29]a	34.2 ± 3.2 [28]a	33.0 ± 2.6 [28]a
DAYS 43 - 50	MEAN±S.D.	32.8 ± 2.9 [29]a	34.2 ± 3.2	33.8 ± 3.4 [29]a	32.8 ± 2.5 [27]a
DAYS 50 - 57	MEAN±S.D.	32.0 ± 3.3 [29]a	33.7 ± 2.4 [25]a	34.4 ± 3.6** [27]a	32.8 ± 2.9 [28]a
DAYS 57 - 64b	MEAN±S.D.	31.6 ± 3.8 [29]a	33.2 ± 3.3	33.2 ± 3.6	31.9 ± 2.9
DAYS 1 - 64b	MEAN±S.D.	27.6 ± 2.2 [29]a	28.5 ± 1.7	28.7 ± 2.6	28.0 ± 2.2
DAYS 99c-106	MEAN±S.D.	29.8 ± 3.7 [29]a	32.3 ± 3.4*	31.8 ± 3.7* [29]a	30.3 ± 3.1 [27]a,d
DAYS 106 -113	MEAN±S.D.	30.5 ± 4.1	32.4 ± 2.9	31.8 ± 2.9 [29]a	30.8 ± 2.8 [27]a,d
DAYS 113 -120	MEAN±S.D.	30.2 ± 3.8	31.5 ± 2.9 [29]a	31.8 ± 3.8	30.2 ± 3.0 [28]d
DAYS 120 -127	MEAN±S.D.	29.2 ± 4.5 [25]a	30.6 ± 3.4	31.1 ± 3.9 [24]a	29.4 ± 3.1 [28]d

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were incorrectly recorded, as well as those associated with spillage or soiled feed.
b. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats.
c. Day 99 postweaning was the first day on which the youngest rats had a feed consumption value recorded after cohabitation.
d. Excludes values for rats that were found dead.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D7 (PAGE 2): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	25a	30	24a	28b
FEED CONSUMPTION (G/DAY)					
DAYS 1 -127	MEAN±S.D.	28.8 ± 2.7	29.9 ± 2.0	29.7 ± 2.7	28.8 ± 2.1

DAYS = DAYS POSTWEANING
a. Excludes values that were incorrectly recorded as well as those associated with spillage.
b. Excludes values for rats that were found dead.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D8 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
FEED CONSUMPTION (G/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	210.5 ± 13.0 [29]a	201.0 ± 16.9*	208.4 ± 15.2	200.3 ± 13.7*
DAYS 8 - 15	MEAN±S.D.	174.2 ± 18.0	168.4 ± 17.0	168.0 ± 14.3	173.9 ± 16.2
DAYS 15 - 22	MEAN±S.D.	144.1 ± 8.9	141.6 ± 7.7	140.7 ± 9.1	141.9 ± 6.3
DAYS 22 - 29	MEAN±S.D.	122.4 ± 6.6 [29]a	117.7 ± 5.9	120.0 ± 6.6	120.3 ± 6.5
DAYS 29 - 36	MEAN±S.D.	105.8 ± 5.4 [28]a	102.6 ± 6.4 [28]a	103.2 ± 5.8 [29]a	103.1 ± 5.8
DAYS 36 - 43	MEAN±S.D.	92.6 ± 6.9 [29]a	90.8 ± 5.3 [29]a	91.6 ± 7.7 [28]a	89.2 ± 4.3 [28]a
DAYS 43 - 50	MEAN±S.D.	82.3 ± 5.1 [29]a	81.3 ± 5.4	81.4 ± 6.6 [29]a	79.7 ± 4.0 [27]a
DAYS 50 - 57	MEAN±S.D.	74.0 ± 3.7 [29]a	74.0 ± 4.2 [25]a	76.0 ± 5.5 [27]a	73.2 ± 3.7 [28]a
DAYS 57 - 64b	MEAN±S.D.	68.1 ± 4.0 [29]a	67.6 ± 5.4	68.8 ± 5.6	67.0 ± 3.8
DAYS 1 - 64b	MEAN±S.D.	98.3 ± 4.0 [29]a	96.1 ± 3.8	97.6 ± 5.0	96.4 ± 3.2
DAYS 99c-106	MEAN±S.D.	52.8 ± 3.5 [29]a	53.7 ± 5.6	54.1 ± 5.8 [29]a	52.6 ± 3.8 [27]a,d
DAYS 106 -113	MEAN±S.D.	53.7 ± 6.4	52.6 ± 4.2	53.5 ± 4.8 [29]a	52.4 ± 3.6 [27]a,d
DAYS 113 -120	MEAN±S.D.	52.1 ± 4.9	50.6 ± 3.9 [29]a	52.0 ± 4.8	50.5 ± 3.6 [28]d
DAYS 120 -127	MEAN±S.D.	49.5 ± 6.5 [25]a	48.1 ± 4.0	51.4 ± 6.8 [24]a	48.4 ± 2.6 [28]d
DAYS 1 -127	MEAN±S.D.	70.7 ± 4.2 [25]a	68.7 ± 3.0	71.0 ± 4.4 [24]a	68.8 ± 2.4 [28]d

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that were incorrectly recorded or not recorded, as well as those associated with spillage or soiled feed.
b. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats.
c. Day 99 postweaning was the first day on which the youngest rats had a feed consumption value recorded after cohabitation.
d. Excludes values for rats that were found dead.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D9 (PAGE 1): SEXUAL MATURATION - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREPUTIAL SEPARATION a	MEAN±S.D.	46.1 ± 2.8	45.4 ± 1.9	45.4 ± 2.4	45.6 ± 1.9

a. Average day postpartum that the prepuce was observed to be separated.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D10 (PAGE 1): MATING AND FERTILITY - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS IN COHABITATION	N	30	29a	30	30
INCLUDED IN ANALYSES	N	30	29	30	29b
DAYS IN COHABITATION c	MEAN±S.D	2.9 ± 2.8	3.2 ± 2.6	2.9 ± 1.6	2.4 ± 1.2
RATS THAT MATED d	N(%)	29(96.7)	28(96.6)	30(100.0)	29(100.0)
FERTILITY INDEX e,f	N/N	21/29	27/28**	28/30**	27/29**
	(%)	(72.4)	(96.4)	(93.3)	(93.1)
RATS WITH CONFIRMED MATING DATES g	N	29	28	30	29
RATS MATING h					
DAYS 1-7	N(%)	28(96.6)	28(100.0)	30(100.0)	29(100.0)
DAYS 8-14	N(%)	1(3.4)	0(0.0)	0(0.0)	0(0.0)
RATS PREGNANT/RATS IN COHABITATION g	N/N	21/30	27/29**	28/30**	27/29**
	(%)	(70.0)	(93.1)	(93.3)	(93.1)

a. Excludes values for rat 7042, which was not assigned to cohabitation because there were no available female rats.
b. Excludes values for rat 7115, which was found dead on day 82 postweaning (day 2 of cohabitation).
c. Restricted to rats with a confirmed mating date and rats that did not mate.
d. Includes only one mating for each male rat.
e. Number of pregnancies/number of rats that mated.
f. Includes only one pregnancy for each rat that impregnated more than one female rat.
g. Includes only one confirmed mating for each male rat.
h. Restricted to rats with a confirmed mating date.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D11 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED a	N	30	30	30	30
FOUND DEAD	N	0	0	0	3**b-d
APPEARED NORMAL	N	28	30	29	28b-d
KIDNEYS:					
RIGHT, PELVIS, SLIGHT DILATION	N	1	0	0	1
TESTES:					
SMALL AND FLACCID	N	1	0	1	0
EPIDIDYMIDES:					
SMALL AND FLACCID	N	1	0	1	0
PROSTATE:					
MASS	N	0	0	1	0
RIGHT EYE: LENTICULAR					
OPACITY	N	0	0	0	1

a. Refer to the individual clinical observations table (Table D17) for external observations confirmed at necropsy.
b. Rat 7111 was found dead on day 131 postweaning.
c. Rat 7113 was found dead on day 95 postweaning.
b. Rat 7115 was found dead on day 82 postweaning.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D12 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	30	30	27a
TERMINAL BODY WEIGHT	MEAN±S.D.	617.2 ± 76.1	664.6 ± 58.2*	652.6 ± 74.4	638.0 ± 48.8
EPIDIDYMIS LEFT	MEAN±S.D.	0.7617 ±0.0676 [29]b	0.7900 ±0.0695	0.7939 ±0.0651 [29]b	0.7975 ±0.0522
CAUDA EPIDIDYMIS LEFT	MEAN±S.D.	0.3535 ±0.0370 [29]b	0.3702 ±0.0390	0.3654 ±0.0459 [29]b	0.3774 ±0.0403
TESTIS LEFT	MEAN±S.D.	1.8489 ±0.1672 [29]b	1.9460 ±0.1718*	1.9329 ±0.1653 [29]b	1.9670 ±0.1676*
LEFT TESTIS MINUS TUNICA ALBUGINEA	MEAN±S.D.	1.6764 ±0.1636 [29]b	1.7619 ±0.1632	1.7683 ±0.1604 [29]b	1.7813 ±0.1781
SEMINAL VESICLES WITH FLUID	MEAN±S.D.	1.7615 ±0.2457	1.8277 ±0.3127 [28]b	1.7521 ±0.3505	1.7811 ±0.3458
SEMINAL VESICLES WITHOUT FLUID	MEAN±S.D.	0.7135 ±0.1138	0.7485 ±0.1260	0.7540 ±0.1335	0.7724 ±0.1139
EPIDIDYMIS RIGHT	MEAN±S.D.	0.7669 ±0.0466 [29]b	0.8033 ±0.0596*	0.8070 ±0.0643* [29]b	0.7947 ±0.0487
TESTIS RIGHT	MEAN±S.D.	1.8548 ±0.1572 [29]b	1.9637 ±0.1673	1.9418 ±0.1636 [29]b	1.9518 ±0.1784
PROSTATE	MEAN±S.D.	1.1603 ±0.1966	1.1375 ±0.2382	1.1584 ±0.2321 [29]b	1.2163 ±0.2826
PITUITARY	MEAN±S.D.	0.014 ± 0.002	0.016 ± 0.003**	0.015 ± 0.003	0.016 ± 0.002*
BRAIN	MEAN±S.D.	2.38 ± 0.10	2.44 ± 0.15	2.46 ± 0.11*	2.39 ± 0.10

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D12 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	30	30	27a
LIVER	MEAN±S.D.	24.72 ± 4.03	27.30 ± 3.54**	26.18 ± 3.26	25.28 ± 3.17 [26]b
KIDNEY PAIRED	MEAN±S.D.	4.84 ± 0.59	5.23 ± 0.45*	5.18 ± 0.64*	5.11 ± 0.49
ADRENAL PAIRED	MEAN±S.D.	0.069 ± 0.011	0.071 ± 0.011	0.073 ± 0.013	0.071 ± 0.010
SPLEEN	MEAN±S.D.	1.01 ± 0.16	1.08 ± 0.22	1.12 ± 0.18*	1.08 ± 0.12*
THYROID	MEAN±S.D.	0.036 ± 0.005	0.041 ± 0.009	0.044 ± 0.005**	0.063 ± 0.012** [26]c
HEART	MEAN±S.D.	1.91 ± 0.21	2.01 ± 0.27	2.04 ± 0.22	1.96 ± 0.19

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead.
b. Excludes value for rat 7095, value was not recorded.
c. Excludes values for rats that had organs damaged (weight affected).
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D13 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	30	30	27a
TERMINAL BODY WEIGHT	MEAN±S.D.	617.2 ± 76.1	664.6 ± 58.2*	652.6 ± 74.4	638.0 ± 48.8
EPIDIDYMIS LEFT	MEAN±S.D.	0.124 ± 0.014 [29]b	0.118 ± 0.017	0.122 ± 0.017 [29]b	0.125 ± 0.010
CAUDA EPIDIDYMIS LEFT	MEAN±S.D.	0.057 ± 0.008 [29]b	0.056 ± 0.009	0.057 ± 0.009 [29]b	0.059 ± 0.007
TESTIS LEFT	MEAN±S.D.	0.302 ± 0.033 [29]b	0.294 ± 0.038	0.298 ± 0.039 [29]b	0.310 ± 0.028
LEFT TESTIS MINUS TUNICA ALBUGINEA	MEAN±S.D.	0.273 ± 0.032 [29]b	0.265 ± 0.034	0.272 ± 0.038 [29]b	0.280 ± 0.028
SEMINAL VESICLES WITH FLUID	MEAN±S.D.	0.288 ± 0.052	0.275 ± 0.058 [28]b	0.273 ± 0.069	0.281 ± 0.056
SEMINAL VESICLES WITHOUT FLUID	MEAN±S.D.	0.116 ± 0.025	0.112 ± 0.021	0.117 ± 0.025	0.121 ± 0.020
EPIDIDYMIS RIGHT	MEAN±S.D.	0.126 ± 0.016 [29]b	0.121 ± 0.015	0.123 ± 0.017 [29]b	0.125 ± 0.011
TESTIS RIGHT	MEAN±S.D.	0.303 ± 0.037 [29]b	0.297 ± 0.038	0.300 ± 0.038 [29]b	0.307 ± 0.032
PROSTATE	MEAN±S.D.	0.189 ± 0.032	0.171 ± 0.033	0.179 ± 0.042 [29]b	0.190 ± 0.040
PITUITARY c	MEAN±S.D.	2.267 ± 0.336	2.437 ± 0.394	2.353 ± 0.517	2.470 ± 0.368
BRAIN	MEAN±S.D.	0.390 ± 0.048	0.369 ± 0.030	0.379 ± 0.037	0.376 ± 0.028

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).
c. Value was multiplied by 1000.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D13 (PAGE 2): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	30	30	27a
LIVER	MEAN±S.D.	3.996 ± 0.330	4.113 ± 0.436	4.016 ± 0.268	3.951 ± 0.368 [26]b
KIDNEY PAIRED	MEAN±S.D.	0.786 ± 0.065	0.789 ± 0.075	0.795 ± 0.066	0.800 ± 0.056
ADRENAL PAIRED	MEAN±S.D.	0.010 ± 0.000	0.010 ± 0.000	0.011 ± 0.002	0.010 ± 0.002
SPLEEN	MEAN±S.D.	0.165 ± 0.021	0.163 ± 0.033	0.172 ± 0.024	0.170 ± 0.017
THYROID c	MEAN±S.D.	5.935 ± 0.840	6.116 ± 1.092	6.705 ± 0.600**	9.888 ± 1.823** [26]d
HEART	MEAN±S.D.	0.311 ± 0.036	0.303 ± 0.037	0.316 ± 0.035	0.306 ± 0.025

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead.
b. Excludes value for rat 7095, value was not recorded.
c. Value was multiplied by 1000.
d. Excludes values for rats that had organs damaged (weight affected).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D14 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	30	30	27a
BRAIN WEIGHT	MEAN±S.D.	2.38 ± 0.10	2.44 ± 0.15	2.46 ± 0.11*	2.39 ± 0.10
EPIDIDYMIS LEFT	MEAN±S.D.	32.02 ± 2.72 [29]b	32.50 ± 3.23	32.30 ± 3.01 [29]b	33.45 ± 2.41
CAUDA EPIDIDYMIS LEFT	MEAN±S.D.	14.86 ± 1.53 [29]b	15.22 ± 1.70	14.86 ± 1.93 [29]b	15.82 ± 1.62
TESTIS LEFT	MEAN±S.D.	77.68 ± 6.11 [29]b	79.95 ± 6.80	78.62 ± 7.18 [29]b	82.44 ± 6.76
LEFT TESTIS MINUS TUNICA ALBUGINEA	MEAN±S.D.	70.43 ± 6.09 [29]b	72.40 ± 6.71	71.93 ± 6.92 [29]b	74.63 ± 6.89
SEMINAL VESICLES WITH FLUID	MEAN±S.D.	74.09 ± 10.98	75.29 ± 13.09 [28]b	71.44 ± 15.18	74.45 ± 13.08
SEMINAL VESICLES WITHOUT FLUID	MEAN±S.D.	30.01 ± 4.97	30.71 ± 4.76	30.75 ± 5.94	32.33 ± 4.46
EPIDIDYMIS RIGHT	MEAN±S.D.	32.25 ± 1.92 [29]b	33.06 ± 2.95	32.85 ± 3.06 [29]b	33.33 ± 2.28
TESTIS RIGHT	MEAN±S.D.	77.93 ± 5.61 [29]b	80.68 ± 6.67	78.96 ± 6.92 [29]b	81.80 ± 7.17
PROSTATE	MEAN±S.D.	48.72 ± 8.11	46.78 ± 10.00	47.08 ± 9.43 [29]b	50.89 ± 11.26
PITUITARY	MEAN±S.D.	0.58 ± 0.10	0.66 ± 0.12*	0.62 ± 0.12	0.66 ± 0.09*
LIVER	MEAN±S.D.	1037.23 ±158.37	1120.77 ±135.98	1063.74 ±116.27	1062.09 ±122.13 [26]c

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead.
b. Excludes values for rats that had abnormal organs (weight affected) or organs damaged (weight affected).
c. Excludes value for rat 7095, value was not recorded.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D14 (PAGE 2): RATIOS (%) OF BRAIN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	30	30	27a
KIDNEY PAIRED	MEAN±S.D.	203.09 ± 22.84	214.72 ± 17.71	210.10 ± 21.08	214.30 ± 19.96
ADRENAL PAIRED	MEAN±S.D.	2.91 ± 0.46	2.93 ± 0.44	2.98 ± 0.54	3.00 ± 0.51
SPLEEN	MEAN±S.D.	42.56 ± 6.02	44.51 ± 9.10	45.78 ± 7.49	45.40 ± 4.73
THYROID	MEAN±S.D.	1.52 ± 0.21	1.68 ± 0.37	1.77 ± 0.17**	2.64 ± 0.52** [26]b
HEART	MEAN±S.D.	80.26 ± 9.44	82.59 ± 11.57	83.18 ± 8.57	81.86 ± 6.64

ALL WEIGHTS WERE RECORDED IN GRAMS (G). RATIOS (%) = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rats that were found dead.
b. Excludes values for rats that had organs damaged (weight affected).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D15 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED	N	30	30	30	27a
INCLUDED IN ANALYSES	N	29b	30	29b	27
NUMBER MOTILE	MEAN±S.D.	420.6 ± 158.4	400.4 ± 163.2	397.9 ± 186.0	449.0 ± 145.0
MOTILE PERCENT	MEAN±S.D.	77.2 ± 7.8	76.9 ± 8.1	76.4 ± 7.2	80.6 ± 5.7
STATIC COUNT (NONMOTILE)	MEAN±S.D.	116.1 ± 38.6	110.6 ± 39.7	114.6 ± 48.3	107.1 ± 45.4
TOTAL COUNT	MEAN±S.D.	536.6 ± 171.6	511.0 ± 181.3	512.5 ± 212.9	556.1 ± 170.6
SPERM COUNT	MEAN±S.D.	186.9 ± 59.7	200.9 ± 73.1	181.3 ± 53.9	179.0 ± 61.8
SPERM CONCENTRATION	MEAN±S.D.	10.8 ± 3.4	11.8 ± 4.4	10.6 ± 3.1	10.4 ± 3.6
SPERM DENSITY	MEAN±S.D.	1543.6 ± 520.8	1571.6 ± 536.1	1461.2 ± 438.8	1372.6 ± 444.6
SPERMATID COUNT	MEAN±S.D.	36.6 ± 15.6	35.6 ± 14.0	33.4 ± 9.4	29.6 ± 12.1
SPERMATID CONCENTRATION	MEAN±S.D.	2.1 ± 0.9	2.1 ± 0.8	1.9 ± 0.5	1.7 ± 0.8
SPERMATID DENSITY	MEAN±S.D.	125.0 ± 44.4	117.2 ± 46.2	109.3 ± 28.6	97.6 ± 41.2

a. Excludes values for rats that were found dead.

b. Excludes values for rats that had abnormal epididymides and testes.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D16 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - SUMMARY - F1 GENERATION MALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED	N	30	30	30	27a
INCLUDED IN ANALYSES	N	29b	30	29b	27
NORMAL	MEAN±S.D.	189.5± 6.3	188.8± 4.9	190.1± 4.9	188.1± 5.4
PERCENT ABNORMAL	MEAN±S.D.	5.4± 3.1	5.6± 2.5	4.9± 2.4	5.9± 2.7
NO HOOK	MEAN±S.D.	0.2± 0.5	0.2± 0.6	0.1± 0.2	0.1± 0.4
EXCESSIVE HOOK	MEAN±S.D.	0.0± 0.0	0.0± 0.0	0.0± 0.0	0.0± 0.2
AMORPHOUS	MEAN±S.D.	0.0± 0.0	0.1± 0.2	0.0± 0.0	0.0± 0.2
PIN HEAD	MEAN±S.D.	0.0± 0.0	0.0± 0.0	0.0± 0.0	0.0± 0.2
DETACHED HEAD	MEAN±S.D.	7.9± 5.1	7.7± 4.1	6.9± 4.0	8.1± 5.0
NO HEAD	MEAN±S.D.	2.2± 1.6	2.6± 2.0	2.4± 1.4	2.8± 1.9
BANANA	MEAN±S.D.	0.0± 0.2	0.1± 0.2	0.1± 0.4	0.2± 0.8
COILED FLAGELLUM	MEAN±S.D.	0.0± 0.2	0.1± 0.2	0.0± 0.2	0.0± 0.0
BENT FLAGELLUM	MEAN±S.D.	0.0± 0.0	0.0± 0.0	0.0± 0.2	0.0± 0.2
BENT FLAGELLUM TIP	MEAN±S.D.	0.0± 0.0	0.0± 0.0	0.0± 0.0	0.0± 0.0
BROKEN FLAGELLUM	MEAN±S.D.	0.5± 0.8	0.5± 0.8	0.3± 0.7	0.4± 0.6

a. Excludes values for rats that were found dead.
b. Excludes values for rats that had abnormal epididymides and testes.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
7001	DP(110)	CHROMORHINORRHEA
7002	DP(108)	CHROMORHINORRHEA
7003	DP(35- 42)	BACK: LESION (0.5 CM IN DIAMETER)
	DP(43)	LESION HEALED
	DP(35- 48)	NECK: LESION (DID NOT EXCEED 0.5 CM IN DIAMETER)
	DP(49)	LESION HEALED
	DP(49- 55)	LOCALIZED ALOPECIA: NECK
	DP(56)	ALOPECIA NO LONGER APPARENT
	DP(135-136)	CHROMORHINORRHEA
7004	DP(98-101)	INCISORS: MISSING/BROKEN
	DP(102)	INCISORS: GROWN IN
	DP(102-106)	INCISORS: MISALIGNED
	DP(107)	INCISORS: REALIGNED
7005		NO ADVERSE FINDINGS
7006	DP(133-134)	CHROMODACRYORRHEA
7007	DP(38- 39)	CHROMODACRYORRHEA
	DP(38- 53)	INCISORS: MISSING/BROKEN
	DP(54)	INCISORS: GROWN IN
	DP(38-139)	INCISORS: MISALIGNED a
	DP(80-139)	INCISORS: MISSING/BROKEN a
	DP(108-109)	SOFT OR LIQUID FECES
7008		NO ADVERSE FINDINGS
7009	DP(1- 2)	CHROMORHINORRHEA
	DP(108)	CHROMORHINORRHEA
7010	DP(58- 59)	CHROMODACRYORRHEA
	DP(58- 73)	INCISORS: MISALIGNED
	DP(74)	INCISORS: REALIGNED
	DP(85-139)	INCISORS: MISALIGNED a
	DP(106)	CHROMODACRYORRHEA
	DP(106-139)	INCISORS: MISSING/BROKEN a
	DP(109-113)	CHROMODACRYORRHEA
	DP(120-124)	CHROMORHINORRHEA
	DP(125-131)	CHROMODACRYORRHEA
7011	DP(1- 2)	CHROMORHINORRHEA
7012	DP(108-112)	CHROMORHINORRHEA
7013	DP(113)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
5450	DP(54-130)	INCISORS: MISALIGNED a
	DP(55)	CHROMORHINORRHEA
	DP(55)	CHROMODACRYORRHEA
	DP(111)	CHROMORHINORRHEA
7015		NO ADVERSE FINDINGS
7016		NO ADVERSE FINDINGS
7017	DP(3- 4)	CHROMORHINORRHEA
7018	DP(2)	CHROMORHINORRHEA
	DP(103-107)	CHROMORHINORRHEA
7019		NO ADVERSE FINDINGS
7020	DP(100-101)	CHROMORHINORRHEA
	DP(106)	CHROMORHINORRHEA
7021	DP(116)	CHROMORHINORRHEA
7022	DP(114-121)	INCISORS: MISSING/BROKEN
	DP(122)	INCISORS: GROWN IN
	DP(122-139)	INCISORS: MISALIGNED a
7023	DP(102-103)	CHROMORHINORRHEA
7024		NO ADVERSE FINDINGS
7025		NO ADVERSE FINDINGS
7026	DP(107)	CHROMORHINORRHEA
7027		NO ADVERSE FINDINGS
7028	DP(111-112)	CHROMORHINORRHEA
7029	DP(15- 21)	NECK: LESION (0.2 CM X 0.5 CM)
	DP(22)	LESION HEALED
	DP(17- 21)	HEAD: TWO LESIONS (DID NOT EXCEED 0.3 CM X 1.0 CM)
	DP(22)	LESION HEALED
	DP(22- 35)	HEAD: LESION (0.3 CM X 1.0 CM)
	DP(36)	LESION HEALED
7030	DP(52- 79)	INCISORS: MISSING/BROKEN
	DP(80)	INCISORS: GROWN IN
	DP(54- 56)	CHROMODACRYORRHEA
	DP(56- 58)	MOUTH: LESION (0.3 CM IN DIAMETER)
	DP(59)	LESION HEALED
	DP(80-130)	INCISORS: MISALIGNED a
	DP(82-130)	INCISORS: MISSING/BROKEN a

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
7031	DP(110-111)	CHROMORHINORRHEA
7032	DP(121)	CHROMORHINORRHEA
7033	DP(112)	CHROMORHINORRHEA
7034	DP(9)	CHROMORHINORRHEA
	DP(119-120)	CHROMORHINORRHEA
	DP(136-138)	CHROMORHINORRHEA
7035	DP(9)	CHROMORHINORRHEA
	DP(67)	SOFT OR LIQUID FECES
7036	DP(57- 75)	LOCALIZED ALOPECIA: LIMBS
	DP(76)	ALOPECIA NO LONGER APPARENT
	DP(139)	EARS: SWOLLEN AND PURPLE
7037		NO ADVERSE FINDINGS
7038		NO ADVERSE FINDINGS
7039	DP(28- 32)	CHROMORHINORRHEA
	DP(28- 53)	INCISORS: MISALIGNED
	DP(54)	INCISORS: REALIGNED
	DP(29- 30)	CHROMODACRYORRHEA
	DP(93- 95)	INCISORS: MISALIGNED
	DP(96)	INCISORS: REALIGNED
	DP(98-103)	INCISORS: MISSING/BROKEN
	DP(104)	INCISORS: GROWN IN
	DP(104-140)	INCISORS: MISALIGNED a
	DP(113-140)	INCISORS: MISSING/BROKEN a
7040	DP(43- 45)	CHROMODACRYORRHEA
	DP(43- 53)	INCISORS: MISSING/BROKEN
	DP(54)	INCISORS: GROWN IN
	DP(43-139)	INCISORS: MISALIGNED a
	DP(76)	SOFT OR LIQUID FECES
	DP(117-139)	INCISORS: MISSING/BROKEN a
7041		NO ADVERSE FINDINGS
7042		NO ADVERSE FINDINGS
7043	DP(39- 40)	BACK: LESION (DID NOT EXCEED 1.5 CM IN DIAMETER)
	DP(41- 53)	BACK: TWO LESIONS (1.5 CM IN DIAMETER)
	DP(54)	LESION HEALED
	DP(54- 67)	BACK: LESION (DID NOT EXCEED 1.0 CM X 0.5 CM)
	DP(68)	LESION HEALED
	DP(69)	SOFT OR LIQUID FECES
7044	DP(109-111)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
7045	DP(28- 31)	NECK: LESION (0.5 CM IN DIAMETER)
	DP(32- 46)	NECK: TWO LESIONS (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DP(47)	LESION HEALED
	DP(47- 50)	NECK: LESION (0.5 CM IN DIAMETER)
	DP(51)	LESION HEALED
	DP(51- 61)	LOCALIZED ALOPECIA: NECK
	DP(62)	ALOPECIA NO LONGER APPARENT
	DP(117-118)	CHROMORHINORRHEA
7046	DP(97-105)	INCISORS: MISSING/BROKEN
	DP(106)	INCISORS: GROWN IN
	DP(118-119)	CHROMORHINORRHEA
7047		NO ADVERSE FINDINGS
7048		NO ADVERSE FINDINGS
7049	DP(66)	CHROMORHINORRHEA
7050	DP(73)	CHROMORHINORRHEA
	DP(92- 98)	CHROMODACRYORRHEA
	DP(105-109)	CHROMORHINORRHEA
	DP(116-117)	CHROMORHINORRHEA
7051	DP(59- 60)	CHROMORHINORRHEA
	DP(105-106)	CHROMORHINORRHEA
7052	DP(106)	CHROMORHINORRHEA
7053	DP(28- 32)	CHROMODACRYORRHEA
	DP(29- 62)	INCISORS: MISSING/BROKEN
	DP(63)	INCISORS: GROWN IN
	DP(29-139)	INCISORS: MISALIGNED a
	DP(34- 35)	CHROMODACRYORRHEA
	DP(91- 95)	INCISORS: MISSING/BROKEN
	DP(96)	INCISORS: GROWN IN
	DP(118-139)	INCISORS: MISSING/BROKEN a
7054	DP(25- 35)	NECK: LESION (0.5 CM IN DIAMETER)
	DP(36)	LESION HEALED
7055	DP(65)	CHROMORHINORRHEA
	DP(125-128)	CHROMORHINORRHEA
	DP(132)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
7056	DP(40- 49)	BACK: LESION (DID NOT EXCEED 1.5 CM IN DIAMETER)
	DP(50)	LESION HEALED
	DP(40- 46)	NECK: TWO LESIONS (0.4 CM IN DIAMETER)
	DP(47)	LESIONS HEALED
	DP(65- 68)	LOCALIZED ALOPECIA: NECK
	DP(69)	ALOPECIA NO LONGER APPARENT
	DP(81-140)	LOCALIZED ALOPECIA: NECK a
7057	DP(102)	CHROMORHINORRHEA
	DP(106)	CHROMORHINORRHEA
7058	DP(124-131)	INCISORS: MISSING/BROKEN
	DP(132)	INCISORS: GROWN IN
7059	DP(117)	CHROMORHINORRHEA
7060	DP(107)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
7061	DP(32- 39)	INCISORS: MISALIGNED
	DP(40)	INCISORS: REALIGNED
	DP(32- 65)	INCISORS: MISSING/BROKEN
	DP(66)	INCISORS: GROWN IN
	DP(33- 35)	CHROMODACRYORRHEA
	DP(44-139)	INCISORS: MISALIGNED a
	DP(45)	CHROMORHINORRHEA
	DP(57)	CHROMORHINORRHEA
	DP(62- 63)	CHROMORHINORRHEA
	DP(79- 93)	INCISORS: MISSING/BROKEN
	DP(94)	INCISORS: GROWN IN
	DP(98-139)	INCISORS: MISSING/BROKEN a
	DP(133-134)	CHROMORHINORRHEA
	DP(136)	CHROMORHINORRHEA
7062	DP(1- 2)	CHROMORHINORRHEA
7063	DP(35- 41)	INCISORS: MISALIGNED
	DP(42)	INCISORS: REALIGNED
	DP(39- 41)	INCISORS: MISSING/BROKEN
	DP(42)	INCISORS: GROWN IN
	DP(76- 85)	INCISORS: MISSING/BROKEN
	DP(86)	INCISORS: GROWN IN
	DP(96- 98)	INCISORS: MISSING/BROKEN
	DP(99)	INCISORS: GROWN IN
	DP(107)	SOFT OR LIQUID FECES
7064	DP(32- 46)	NECK: LESION (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DP(47)	LESION HEALED
	DP(34- 38)	LOCALIZED ALOPECIA: NECK
	DP(39)	ALOPECIA NO LONGER APPARENT
	DP(105-106)	CHROMORHINORRHEA
	DP(108-109)	CHROMORHINORRHEA
7065	DP(110)	SOFT OR LIQUID FECES
7066		NO ADVERSE FINDINGS
7067		NO ADVERSE FINDINGS
7068	DP(50- 85)	BACK: LESION (DID NOT EXCEED 1.5 CM X 1.0 CM)
	DP(86)	LESION HEALED
	DP(86- 88)	LOCALIZED ALOPECIA: BACK
	DP(89)	ALOPECIA NO LONGER APPARENT
	DP(109-110)	CHROMORHINORRHEA
	DP(136)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
7069		NO ADVERSE FINDINGS
7070	DP(19)	CHROMORHINORRHEA
	DP(19- 33)	CHROMODACRYORRHEA
	DP(27- 33)	INCISORS: MISALIGNED
	DP(34)	INCISORS: REALIGNED
	DP(38- 53)	CHROMODACRYORRHEA
	DP(38-139)	INCISORS: MISALIGNED a
	DP(56- 62)	CHROMODACRYORRHEA
	DP(59- 62)	CHROMORHINORRHEA
	DP(66- 67)	CHROMODACRYORRHEA
	DP(67)	LOCALIZED ALOPECIA: BACK
	DP(68)	ALOPECIA NO LONGER APPARENT
	DP(83- 84)	CHROMODACRYORRHEA
	DP(104-106)	CHROMODACRYORRHEA
	DP(118-139)	INCISORS: MISSING/BROKEN a
	DP(122-139)	BACK: SCAB (DID NOT EXCEED 1.0 CM X 0.4 CM)a
	DP(130-138)	CHROMODACRYORRHEA
7071		NO ADVERSE FINDINGS
7072		NO ADVERSE FINDINGS
7073	DP(68- 69)	CHROMORHINORRHEA
	DP(71)	CHROMORHINORRHEA
	DP(117)	CHROMORHINORRHEA
7074		NO ADVERSE FINDINGS
7075	DP(125-126)	CHROMORHINORRHEA
7076	DP(62)	CHROMORHINORRHEA
	DP(118-119)	CHROMORHINORRHEA
7077	DP(54- 55)	CHROMORHINORRHEA
	DP(81- 82)	CHROMODACRYORRHEA
	DP(81-138)	INCISORS: MISALIGNED a
	DP(106)	CHROMORHINORRHEA
	DP(114-138)	INCISORS: MISSING/BROKEN a
7078		NO ADVERSE FINDINGS
7079	DP(1- 2)	CHROMORHINORRHEA
	DP(27- 28)	NECK: LESION (0.3 CM IN DIAMETER)
	DP(29)	LESION HEALED
	DP(102-103)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
7080	DP(106)	CHROMORHINORRHEA
	DP(117)	CHROMORHINORRHEA
7081		NO ADVERSE FINDINGS
7082		NO ADVERSE FINDINGS
7083	DP(118)	CHROMORHINORRHEA
	DP(128)	CHROMODACRYORRHEA
	DP(128-132)	CHROMORHINORRHEA
7084	DP(106-108)	CHROMORHINORRHEA
7085	DP(60)	CHROMORHINORRHEA
7086		NO ADVERSE FINDINGS
7087	DP(127-128)	CHROMORHINORRHEA
7088	DP(101-105)	CHROMORHINORRHEA
7089		NO ADVERSE FINDINGS
7090		NO ADVERSE FINDINGS

DP = DAY POSTWEANING

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
7091		NO ADVERSE FINDINGS
7092		NO ADVERSE FINDINGS
7093	DP(29- 34)	INCISORS: MISSING/BROKEN
	DP(35)	INCISORS: GROWN IN
	DP(56-139)	CORNEAL OPACITY a
	DP(68- 71)	INCISORS: MISSING/BROKEN
	DP(72)	INCISORS: GROWN IN
	DP(110)	CHROMORHINORRHEA
7094	DP(64- 72)	CHROMODACRYORRHEA
	DP(64- 98)	INCISORS: MISSING/BROKEN
	DP(99)	INCISORS: GROWN IN
	DP(64-139)	INCISORS: MISALIGNED b
	DP(76- 97)	CHROMODACRYORRHEA
	DP(78)	SOFT OR LIQUID FECES
	DP(78- 80)	LOCALIZED ALOPECIA: HEAD
	DP(81)	ALOPECIA NO LONGER APPARENT
	DP(102-139)	CHROMODACRYORRHEA b
	DP(114-138)	INCISORS: MISSING/BROKEN
	DP(139)	INCISORS: GROWN IN
7095	DP(48- 53)	BACK: LESION (0.5 CM IN DIAMETER)
	DP(54)	LESION HEALED
	DP(54- 63)	LOCALIZED ALOPECIA: BACK
	DP(64)	ALOPECIA NO LONGER APPARENT
	DP(113-117)	CHROMORHINORRHEA
	DP(113-138)	CHROMODACRYORRHEA
	DP(113-139)	INCISORS: MISALIGNED b
	DP(113-139)	INCISORS: MISSING/BROKEN b
7096	DP(105-107)	CHROMORHINORRHEA
	DP(131-132)	CHROMORHINORRHEA
7097		NO ADVERSE FINDINGS
7098	DP(1)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Lenticular opacity confirmed at necropsy.
b. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 10): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
7099	DP(26- 60)	NECK: LESION (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DP(61)	LESION HEALED
	DP(30- 53)	BACK: LESION (0.5 CM IN DIAMETER)
	DP(54- 56)	BACK: TWO LESIONS (0.5 CM IN DIAMETER)
	DP(57- 59)	BACK: THREE LESIONS (DID NOT EXCEED 1.0 CM X 0.5 CM)
	DP(60)	TWO LESIONS HEALED
	DP(60- 70)	BACK: LESION (1.0 CM X 0.5 CM)
	DP(71- 75)	BACK: TWO LESIONS (DID NOT EXCEED 0.5 CM IN DIAMETER)
	DP(76)	LESION HEALED
	DP(76- 77)	BACK: LESION (0.3 CM IN DIAMETER)
	DP(78)	LESION HEALED
	DP(61- 68)	LOCALIZED ALOPECIA: NECK
	DP(69)	ALOPECIA NO LONGER APPARENT
	DP(71-103)	LOCALIZED ALOPECIA: LIMBS
	DP(104)	ALOPECIA NO LONGER APPARENT
7100	DP(1- 3)	CHROMORHINORRHEA
	DP(54-139)	RIGHT FOREPAW: FOURTH DIGIT BENT a
	DP(119)	CHROMORHINORRHEA
7101	DP(19- 46)	HEAD: LESION (DID NOT EXCEED 0.5 CM IN DIAMETER)
	DP(47)	LESION HEALED
	DP(43- 55)	BACK: LESION (DID NOT EXCEED 3.0 CM IN DIAMETER)
	DP(56- 74)	BACK: TWO LESIONS (DID NOT EXCEED 1.5 CM X 0.5 CM IN DIAMETER)
	DP(75)	LESION HEALED
	DP(75- 81)	BACK: LESION (0.3 CM IN DIAMETER)
	DP(82)	LESION HEALED
	DP(54- 57)	CHROMORHINORRHEA
	DP(61)	CHROMORHINORRHEA
	DP(90)	CHROMORHINORRHEA

DP = DAY POSTWEANING
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 11): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
7102	DP(20- 21)	BACK: LESION (0.5 CM IN DIAMETER)
	DP(22)	LESION HEALED
	DP(41- 49)	BACK: TWO LESIONS (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DP(50- 59)	BACK: THREE LESIONS (DID NOT EXCEED 2.0 CM IN DIAMETER)
	DP(60)	LESION HEALED
	DP(60- 62)	BACK: TWO LESIONS (DID NOT EXCEED 2.0 CM X 0.5 CM)
	DP(63- 70)	BACK: THREE LESIONS (DID NOT EXCEED 2.0 CM X 0.5 CM)
	DP(71)	LESION HEALED
	DP(71)	TWO LESIONS MERGED
	DP(71- 92)	BACK: LESION (DID NOT EXCEED 1.5 CM IN DIAMETER)
	DP(93)	LESION HEALED
	DP(135)	CHROMORHINORRHEA
7103	DP(34- 45)	BACK: LESION (0.5 CM X 1.0 CM)
	DP(46)	LESION HEALED
	DP(140)	INCISORS: MISALIGNED a
7104	DP(120-123)	CHROMORHINORRHEA
7105		NO ADVERSE FINDINGS
7106	DP(58)	INCISORS: MISALIGNED
	DP(59- 64)	INCISORS: MISSING/BROKEN
	DP(65)	INCISORS: GROWN IN
7107		NO ADVERSE FINDINGS
7108	DP(33- 53)	BACK: LESION (DID NOT EXCEED 0.5 CM IN DIAMETER)
	DP(54)	LESION HEALED
	DP(119-121)	CHROMORHINORRHEA
7109		NO ADVERSE FINDINGS
7110	DP(45- 53)	LOCALIZED ALOPECIA: NECK
	DP(54)	ALOPECIA NO LONGER APPARENT
	DP(60)	CHROMORHINORRHEA
	DP(64)	CHROMORHINORRHEA
	DP(77- 78)	CHROMORHINORRHEA
	DP(108-109)	CHROMORHINORRHEA
7111	DP(94)	CHROMORHINORRHEA
	DP(107)	CHROMORHINORRHEA
	DP(118-119)	CHROMORHINORRHEA
	DP(131)	FOUND DEAD
7112	DP(83)	SOFT OR LIQUID FECES
7113	DP(95)	CONVULSION
	DP(95)	FOUND DEAD
7114		NO ADVERSE FINDINGS

DP = DAY POSTWEANING

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D17 (PAGE 12): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
7115	DP(67)	SOFT OR LIQUID FECES
	DP(73)	SOFT OR LIQUID FECES
	DP(82)	FOUND DEAD
7116		NO ADVERSE FINDINGS
7117		NO ADVERSE FINDINGS
7118	DP(2)	CHROMORHINORRHEA
	DP(117-119)	CHROMORHINORRHEA
7119	DP(120)	CHROMORHINORRHEA
7120	DP(35)	NECK: LESION (0.2 CM IN DIAMETER)
	DP(36)	LESION HEALED
	DP(35- 43)	BACK: LESION (0.5 CM IN DIAMETER)
	DP(44- 47)	BACK: TWO LESIONS (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DP(48)	LESIONS HEALED
	DP(44- 50)	NECK: LESION (0.5 CM IN DIAMETER)
	DP(51)	LESION HEALED
	DP(117)	CHROMORHINORRHEA

DP = DAY POSTWEANING

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 1): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	71	78	85a
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY						
7001	38.	79.	139.	204.	263.	330.	369.	412.	444.	464.	485.	505.	518.
7002	41.	78.	128.	183.	235.	299.	341.	382.	406.	426.	438.	454.	468.
7003	44.	88.	144.	204.	263.	324.	372.	404.	436.	461.	475.	500.	522.
7004	44.	87.	140.	200.	251.	315.	368.	414.	449.	479.	504.	524.	542.
7005	50.	93.	158.	218.	273.	332.	374.	412.	439.	460.	472.	497.	510.
7006	40.	77.	122.	177.	232.	294.	340.	381.	415.	436.	451.	475.	483.
7007	44.	87.	160.	235.	310.	394.	444.	478.	522.	559.	579.	606.	627.
7008	39.	81.	137.	193.	257.	329.	384.	429.	469.	489.	512.	536.	555.
7009	36.	69.	117.	171.	229.	286.	338.	374.	413.	433.	457.	474.	485.
7010	39.	76.	132.	201.	267.	337.	400.	434.	474.	511.	536.	561.	573.
7011	29.	69.	125.	184.	243.	301.	343.	377.	393.	401.	426.	429.	436.
7012	39.	75.	118.	175.	228.	288.	336.	372.	409.	424.	450.	477.	488.
7013	46.	95.	162.	225.	290.	355.	403.	444.	477.	498.	510.	528.	535.
5450	37.	72.	132.	195.	254.	320.	369.	400.	422.	445.	456.	488.	510.
7015	41.	82.	125.	190.	251.	313.	366.	389.	413.	432.	448.	468.	486.
7016	40.	83.	141.	201.	253.	310.	348.	386.	413.	428.	446.	466.	470.
7017	33.	78.	134.	200.	268.	336.	389.	434.	468.	486.	508.	527.	541.
7018	32.	61.	99.	153.	208.	263.	311.	353.	390.	412.	431.	450.	457.
7019	44.	98.	162.	231.	291.	365.	407.	454.	484.	522.	555.	590.	591.
7020	37.	91.	146.	216.	282.	355.	414.	465.	503.	562.	606.	637.	648.
7021	50.	102.	167.	238.	314.	388.	442.	490.	525.	555.	584.	600.	592.
7022	39.	85.	144.	212.	280.	338.	396.	428.	454.	484.	512.	534.	536.
7023	49.	106.	178.	250.	320.	389.	404.	479.	502.	538.	570.	598.	606.
7024	76.	131.	199.	268.	337.	404.	451.	484.	512.	534.	560.	589.	590.
7025	52.	101.	161.	219.	279.	336.	377.	416.	433.	453.	472.	489.	495.
7026	42.	95.	156.	214.	281.	332.	366.	393.	417.	430.	456.	459.	464.
7027	49.	102.	170.	233.	297.	354.	403.	442.	473.	493.	517.	537.	533.
7028	49.	103.	167.	241.	316.	376.	428.	475.	492.	528.	550.	575.	601.
7029	36.	78.	137.	208.	262.	326.	374.	408.	441.	468.	465.	511.	535.
7030	47.	92.	154.	210.	255.	311.	348.	385.	378.	392.	398.	423.	431.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Day 85 postweaning was the first day on which the youngest rats (in this group) had a body weight value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 2): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAY 92	99	106	113	120	127	134	PRECOHABITATION BODY WEIGHT a
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY
7001	532.	547.	559.	569.	582.	592.	594.	513.
7002	472.	484.	487.	505.	509.	521.	524.	462.
7003	534.	557.	556.	566.	562.	585.	594.	515.
7004	563.	586.	586.	606.	613.	626.	630.	539.
7005	521.	531.	545.	552.	554.	564.	570.	511.
7006	497.	496.	504.	509.	523.	538.	545.	488.
7007	652.	665.	668.	696.	692.	709.	721.	626.
7008	577.	587.	593.	610.	609.	626.	641.	553.
7009	500.	508.	523.	538.	548.	565.	574.	480.
7010	583.	592.	595.	601.	600.	569.	598.	570.
7011	453.	462.	467.	488.	488.	504.	510.	434.
7012	500.	516.	533.	554.	564.	570.	592.	490.
7013	564.	568.	576.	575.	602.	610.	623.	533.
5450	509.	528.	538.	532.	542.	551.		461.
7015	509.	528.	536.	541.	553.	566.	573.	477.
7016	484.	486.	495.	498.	493.	497.	491.	476.
7017	549.	565.	573.	582.	590.	596.	608.	532.
7018	473.	489.	492.	510.	511.	516.	520.	463.
7019	608.	626.	632.	666.	668.	654.	684.	595.
7020	675.	703.	724.	760.	767.	790.	800.	648.
7021	612.	628.	636.	667.	675.	692.	717.	602.
7022	550.	562.	580.	597.	602.	611.	630.	543.
7023	622.	647.	667.	679.	704.	713.	732.	603.
7024	608.	634.	640.	638.	668.	686.	700.	592.
7025	505.	522.	524.	522.	529.	542.	560.	481.
7026	476.	500.	511.	513.	523.	528.	542.	465.
7027	554.	570.	521.	582.	597.	609.	626.	543.
7028	612.	610.	620.	608.	626.	629.		568.
7029	535.	554.	561.	583.	593.	607.		487.
7030	458.	462.	468.	476.	483.	488.		404.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 3): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

	DAY 1	8	15	22	29	36	43	50	57	64	71	78	85a
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY						
7031	54.	107.	178.	255.	326.	390.	440.	460.	492.	507.	523.	549.	574.
7032	49.	93.	157.	225.	284.	344.	379.	416.	434.	446.	460.	482.	484.
7033	50.	91.	155.	220.	279.	345.	395.	432.	466.	486.	499.	523.	534.
7034	43.	90.	148.	220.	285.	355.	404.	446.	480.	510.	516.	542.	558.
7035	50.	100.	170.	234.	297.	363.	411.	432.	469.	498.	512.	533.	545.
7036	35.	75.	128.	193.	254.	324.	374.	404.	447.	475.	500.	526.	540.
7037	43.	84.	143.	206.	269.	342.	395.	435.	470.	502.	514.	541.	556.
7038	44.	88.	150.	214.	273.	335.	383.	424.	466.	498.	510.	541.	554.
7039	49.	80.	141.	212.	265.	334.	385.	431.	465.	493.	511.	547.	557.
7040	50.	95.	160.	231.	297.	366.	392.	443.	484.	512.	550.	563.	586.
7041	50.	96.	164.	234.	304.	370.	420.	467.	508.	537.	567.	591.	606.
7042	39.	82.	140.	200.	263.	323.	358.	400.	430.	442.	473.	488.	515.
7043	61.	102.	168.	235.	303.	374.	417.	459.	504.	533.	561.	588.	601.
7044	58.	100.	159.	222.	290.	358.	390.	436.	470.	498.	515.	538.	537.
7045	46.	93.	152.	224.	290.	352.	424.	483.	526.	562.	580.	610.	624.
7046	41.	87.	150.	220.	290.	358.	420.	461.	509.	541.	590.	591.	610.
7047	38.	80.	138.	203.	276.	343.	400.	449.	488.	506.	525.	547.	560.
7048	42.	87.	145.	218.	285.	351.	416.	450.	490.	518.	550.	576.	569.
7049	34.	79.	133.	202.	255.	323.	387.	428.	460.	495.	508.	542.	543.
7050	50.	99.	157.	235.	306.	374.	430.	472.	510.	549.	581.	613.	601.
7051	40.	90.	146.	209.	264.	319.	378.	416.	446.	481.	500.	522.	532.
7052	43.	84.	135.	200.	269.	322.	376.	406.	441.	464.	486.	501.	502.
7053	48.	96.	149.	215.	273.	333.	388.	422.	458.	488.	517.	550.	559.
7054	41.	91.	158.	234.	310.	354.	423.	492.	539.	582.	615.	642.	641.
7055	42.	89.	146.	218.	284.	352.	395.	425.	468.	500.	520.	552.	549.
7056	62.	113.	173.	234.	298.	351.	402.	446.	481.	511.	536.	556.	560.
7057	38.	78.	127.	195.	250.	307.	366.	405.	435.	470.	495.	511.	524.
7058	47.	95.	161.	230.	296.	368.	422.	469.	501.	534.	560.	570.	586.
7059	55.	104.	160.	223.	283.	340.	376.	415.	442.	466.	484.	504.	507.
7060	45.	95.	163.	241.	313.	386.	442.	487.	520.	547.	564.	590.	613.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Day 85 postweaning was the first day on which the youngest rats (in this group) had a body weight value recorded after cohabitation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 4): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

	DAY 92	99	106	113	120	127	134	PRECOHABITATION BODY WEIGHT a
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY	
7031	589.	604.	611.	617.	630.	637.	642.	575.
7032	497.	498.	499.	508.	510.	525.	479.	483.
7033	554.	569.	582.	578.	593.	606.	621.	539.
7034	579.	600.	614.	622.	641.	648.	656.	557.
7035	557.	579.	583.	594.	596.	608.	612.	548.
7036	564.	566.	579.	594.	617.	635.	635.	539.
7037	587.	600.	619.	619.	640.	651.	670.	559.
7038	579.	609.	623.	646.	661.	674.	696.	558.
7039	582.	591.	589.	604.	618.	601.	638.	564.
7040	604.	615.	615.	633.	635.	652.	665.	581.
7041	629.	646.	648.	653.	663.	678.	683.	608.
7042	528.	544.	543.	564.	560.	541.	578.	506.
7043	633.	650.	674.	698.	694.	712.	717.	602.
7044	554.	573.	584.	595.	586.	601.	607.	554.
7045	650.	673.	678.	702.	720.	729.	736.	626.
7046	621.	632.	638.	653.	653.	664.	674.	603.
7047	575.	592.	596.	614.	616.	596.	604.	550.
7048	607.	626.	647.	670.	689.	700.	715.	579.
7049	578.	593.	608.	633.	649.	668.	674.	553.
7050	636.	658.	681.	689.	699.	712.	734.	620.
7051	550.	537.	576.	590.	600.	608.	612.	531.
7052	523.	535.	548.	566.	577.	581.	591.	505.
7053	573.	583.	579.	601.	620.	628.	640.	554.
7054	670.	694.	720.	727.	739.	766.	791.	658.
7055	576.	605.	618.	648.	653.	663.	682.	555.
7056	567.	586.	602.	617.	613.	638.	645.	564.
7057	534.	547.	555.	568.	582.	599.	614.	516.
7058	608.	627.	628.	650.	652.	654.	671.	576.
7059	527.	539.	551.	569.	562.	569.	583.	505.
7060	625.	654.	672.	684.	681.	690.		568.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 5): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT #	DAY 1	8	15	22	29	36	43	50	57	64	71	78	85
	DOSAGE GROUP 3						3.0 MG/KG/DAY						
7061	52.	98.	156.	219.	286.	350.	402.	430.	468.	471.	498.	478.	546.
7062	52.	101.	173.	246.	320.	379.	429.	501.	531.	579.	611.	642.	654.
7063	49.	94.	156.	215.	282.	345.	402.	441.	477.	522.	536.	566.	574.
7064	45.	94.	162.	236.	305.	386.	440.	496.	536.	558.	592.	609.	632.
7065	47.	95.	170.	242.	309.	378.	425.	463.	503.	528.	546.	562.	578.
7066	52.	104.	171.	238.	303.	371.	424.	460.	490.	515.	532.	554.	551.
7067	45.	93.	157.	224.	293.	364.	412.	468.	491.	522.	552.	570.	587.
7068	32.	69.	124.	183.	238.	303.	358.	398.	431.	451.	474.	492.	503.
7069	36.	70.	113.	167.	219.	274.	312.	349.	384.	407.	418.	442.	454.
7070	63.	114.	188.	260.	330.	400.	416.	452.	487.	513.	532.	548.	547.
7071	36.	86.	141.	207.	270.	328.	382.	419.	455.	488.	506.	530.	544.
7072	34.	72.	124.	189.	244.	300.	341.	371.	396.	421.	440.	454.	476.
7073	55.	100.	165.	236.	308.	384.	442.	490.	527.	560.	582.	607.	617.
7074	42.	85.	139.	196.	256.	314.	358.	380.	406.	433.	444.	456.	475.
7075	42.	80.	128.	201.	262.	329.	385.	419.	456.	485.	506.	540.	548.
7076	41.	80.	141.	194.	257.	315.	372.	401.	433.	464.	490.	512.	514.
7077	39.	78.	137.	190.	251.	310.	366.	394.	441.	463.	485.	509.	514.
7078	40.	82.	148.	206.	273.	327.	381.	406.	445.	454.	470.	490.	496.
7079	34.	80.	144.	208.	280.	338.	398.	430.	467.	502.	534.	544.	542.
7080	44.	86.	151.	211.	277.	339.	386.	434.	468.	492.	507.	518.	522.
7081	49.	97.	163.	228.	297.	349.	412.	436.	472.	506.	525.	551.	559.
7082	44.	91.	161.	220.	288.	343.	372.	392.	417.	437.	450.	453.	454.
7083	39.	79.	144.	189.	251.	306.	347.	384.	421.	439.	468.	484.	494.
7084	31.	81.	151.	202.	263.	321.	369.	399.	421.	449.	470.	486.	485.
7085	48.	95.	153.	217.	288.	358.	406.	454.	492.	514.	547.	563.	578.
7086	66.	119.	187.	255.	334.	402.	463.	504.	548.	571.	606.	629.	636.
7087	61.	108.	168.	240.	320.	398.	434.	471.	514.	549.	586.	607.	604.
7088	46.	93.	154.	215.	281.	353.	398.	431.	478.	499.	522.	540.	547.
7089	51.	102.	161.	223.	291.	355.	412.	444.	482.	504.	540.	561.	561.
7090	77.	137.	212.	285.	359.	433.	484.	524.	567.	592.	627.	646.	653.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 6): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

	DAY 92a	99	106	113	120	127	134	PRECOHABITATION BODY WEIGHT b
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY
7061	561.	583.	596.	602.	613.	613.	625.	540.
7062	681.	715.	736.	744.	771.	780.	810.	664.
7063	617.	633.	648.	647.	662.	690.	678.	582.
7064	663.	670.	691.	707.	727.	732.	727.	631.
7065	603.	612.	625.	642.	655.	660.	684.	583.
7066	594.	614.	620.	619.	641.	662.	674.	569.
7067	610.	617.	646.	640.	666.	684.	704.	590.
7068	524.	541.	563.	575.	595.	603.	619.	500.
7069	473.	494.	512.	530.	531.	551.	572.	459.
7070	562.	580.	575.	585.	586.	594.	593.	553.
7071	563.	561.	576.	581.	592.	603.	616.	538.
7072	488.	490.	495.	505.	511.	514.	522.	468.
7073	624.	651.	633.	650.	661.	659.	665.	624.
7074	478.	481.	491.	508.	502.	504.	514.	465.
7075	568.	554.	582.	587.	596.	610.	615.	550.
7076	539.	555.	572.	583.	601.	609.	617.	523.
7077	529.	543.	561.	564.	579.	586.	606.	517.
7078	516.	532.	549.	553.	509.	561.	578.	498.
7079	560.	583.	607.	620.	635.	646.	660.	551.
7080	537.	546.	562.	577.	589.	568.	588.	529.
7081	569.	576.	602.	615.	610.	619.	620.	562.
7082	478.	532.	498.	515.	524.	534.	540.	450.
7083	511.	524.	542.	551.	552.	563.	572.	496.
7084	501.	514.	531.	551.	555.	561.	575.	487.
7085	601.	627.	637.	636.	642.	735.	685.	570.
7086	658.	672.	688.	702.	718.	717.	750.	632.
7087	629.	646.	656.	670.	702.	630.	733.	610.
7088	568.	588.	607.	601.	618.	663.	638.	546.
7089	586.	617.	622.	625.	649.	662.	672.	563.
7090	673.	694.	709.	724.	743.	756.	781.	657.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Day 92 postweaning was the first day on which the youngest rats (in this group) had a body weight value recorded after cohabitation.

b. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 100 to 104 days of age.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 7): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

	DAY 1	8	15	22	29	36	43	50	57	64	71	78a	85
RAT #	DOSAGE GROUP 4						30.0 MG/KG/DAY						
7091	38.	72.	126.	185.	239.	302.	357.	399.	433.	446.	467.	478.	483.
7092	52.	96.	150.	214.	276.	333.	383.	421.	452.	470.	494.	519.	525.
7093	38.	82.	134.	193.	254.	316.	377.	407.	438.	450.	464.	494.	496.
7094	39.	78.	127.	190.	240.	302.	348.	389.	423.	449.	445.	474.	490.
7095	47.	86.	147.	209.	275.	342.	385.	419.	445.	473.	499.	519.	523.
7096	43.	82.	143.	208.	275.	344.	395.	423.	455.	494.	516.	544.	566.
7097	46.	87.	149.	207.	267.	325.	374.	394.	427.	440.	472.	482.	494.
7098	37.	84.	149.	214.	286.	361.	414.	451.	478.	492.	527.	551.	562.
7099	37.	74.	132.	190.	244.	309.	355.	396.	428.	441.	460.	480.	482.
7100	37.	79.	134.	200.	264.	334.	377.	422.	462.	482.	502.	522.	530.
7101	38.	80.	138.	206.	269.	337.	374.	419.	447.	470.	492.	510.	522.
7102	47.	89.	149.	212.	271.	328.	369.	399.	432.	451.	470.	494.	502.
7103	51.	96.	160.	226.	292.	355.	406.	454.	495.	524.	537.	573.	581.
7104	55.	98.	153.	220.	286.	335.	380.	415.	452.	475.	491.	507.	515.
7105	57.	102.	166.	232.	292.	349.	386.	422.	449.	466.	481.	502.	508.
7106	38.	82.	149.	209.	276.	345.	398.	431.	462.	483.	512.	542.	550.
7107	40.	80.	142.	201.	263.	323.	373.	413.	445.	467.	488.	516.	518.
7108	46.	92.	163.	226.	296.	359.	414.	450.	484.	498.	510.	528.	550.
7109	47.	82.	142.	205.	274.	326.	386.	423.	468.	493.	510.	537.	544.
7110	49.	94.	160.	223.	289.	353.	411.	451.	488.	516.	532.	562.	575.
7111	34.	66.	120.	177.	234.	287.	330.	368.	403.	431.	443.	466.	480.
7112	40.	84.	143.	208.	280.	348.	402.	434.	472.	490.	519.	538.	548.
7113	51.	95.	162.	227.	298.	362.	414.	443.	472.	506.	525.	547.	547.
7114	43.	88.	150.	214.	287.	344.	400.	424.	459.	475.	496.	505.	513.
7115	53.	108.	176.	249.	328.	395.	444.	486.	522.	554.	570.	596.	b
7116	52.	101.	166.	233.	314.	382.	441.	461.	498.	531.	567.	585.	596.
7117	53.	106.	176.	242.	314.	386.	434.	475.	504.	539.	570.	598.	597.
7118	53.	111.	173.	256.	323.	387.	440.	476.	514.	545.	570.	600.	608.
7119	51.	108.	184.	252.	323.	391.	443.	478.	512.	542.	576.	596.	600.
7120	57.	98.	155.	229.	290.	367.	428.	471.	516.	552.	581.	609.	623.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Day 78 postweaning was the first day on which the youngest rats (in this group) had a body weight value recorded after cohabitation.
b. Rat 7115 was found dead on day 82 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D18 (PAGE 8): BODY WEIGHTS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

	DAY 92	99	106	113	120	127	134	PRECOHABITATION BODY WEIGHT a
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY
7091	490.	505.	517.	529.	535.	543.	548.	492.
7092	537.	538.	551.	576.	599.	604.	604.	534.
7093	524.	530.	553.	558.	574.	582.	586.	512.
7094	507.	522.	530.	527.	553.	557.	575.	498.
7095	545.	550.	565.	548.	559.	548.	584.	529.
7096	588.	599.	613.	634.	654.	682.	688.	568.
7097	497.	517.	528.	532.	543.	548.	564.	499.
7098	582.	590.	643.	624.	644.	673.	678.	560.
7099	509.	511.	528.	537.	540.	554.	549.	496.
7100	542.	570.	581.	593.	598.	614.	628.	531.
7101	538.	552.	569.	586.	585.	590.	600.	524.
7102	521.	539.	548.	566.	563.	579.	581.	500.
7103	593.	608.	619.	640.	635.	643.	662.	583.
7104	525.	537.	526.	555.	554.	570.	569.	521.
7105	528.	537.	548.	567.	557.	571.	580.	509.
7106	573.	597.	618.	641.	649.	671.	695.	557.
7107	544.	556.	570.	585.	601.	612.	623.	530.
7108	561.	570.	578.	595.	606.	603.	622.	540.
7109	572.	582.	592.	610.	622.	637.	650.	545.
7110	599.	614.	629.	642.	656.	656.	671.	570.
7111	486.	492.	498.	509.	510.	512.	b	471.
7112	559.	568.	582.	588.	658.	605.	617.	549.
7113	567.	FOUND DEAD ON DAY 95 POSTWEANING						550.
7114	531.	539.	549.	562.	572.	572.	586.	510.
7115	FOUND DEAD ON DAY 82 POSTWEANING							606.
7116	604.	625.	638.	643.	649.	656.	672.	588.
7117	615.	637.	638.	653.	672.	670.	688.	603.
7118	613.	637.	643.	652.	661.	671.	686.	598.
7119	615.	632.	648.	652.	664.	668.	689.	605.
7120	626.	640.	655.	676.	669.	682.		585.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.
b. Rat 7111 was found dead on day 131 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 1): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY						
7001	37.	49.	74.	52.	58.	88.	74.	76.	113.	78.	88.	143.	87.
7002	31.	28.	61.	48.	50.	76.	61.	59.	97.	69.	73.	117.	83.
7003	33.	43.	73.	56.	63.	94.	76.	79.	112.	85.	90.	132.	83.
7004	33.	38.	23.	53.	63.	90.	78.	93.	171.	85.	85.	127.	110.
7005	37.	47.	89.	59.	72.	50.	87.	85.	125.	88.	88.	146.	107.
7006	27.	39.	69.	46.	43.	76.	69.	65.	95.	74.	75.	129.	96.
7007	33.	36.	70.	47.	70.	111.	81.	77.	132.	103.	100.	153.	115.
7008	25.	44.	75.	52.	56.	94.	3.	85.	119.	84.	90.	147.	97.
7009	22.	36.	66.	44.	47.	72.	57.	61.	89.	64.	64.	98.	65.
7010	26.	34.	67.	49.	52.	79.	65.	65.	106.	75.	72.	130.	97.
7011	22.	19.	65.	44.	45.	81.	60.	62.	106.	68.	75.	119.	80.
7012	31.	37.	64.	48.	48.	67.	71.	65.	108.	77.	72.	117.	79.
7013	28.	18.	64.	48.	51.	46.	66.	60.	110.	78.	70.	116.	84.
5450	31.	40.	67.	49.	53.	97.	74.	81.	115.	81.	81.	149.	66.
7015	14.	33.	50.	38.	34.	80.	65.	71.	105.	77.	81.	134.	91.
7016	34.	44.	86.	50.	56.	98.	65.	72.	116.	73.	77.	128.	85.
7017	27.	31.	53.	47.	45.	86.	67.	66.	109.	81.	73.	125.	81.
7018	20.	32.	53.	41.	39.	75.	55.	57.	87.	62.	60.	106.	70.
7019	35.	41.	61.	46.	54.	82.	68.	70.	105.	72.	88.	126.	43.
7020	39.	48.	79.	52.	60.	102.	80.	80.	132.	135.	102.	154.	100.
7021	37.	58.	84.	57.	59.	102.	69.	80.	115.	87.	89.	137.	105.
7022	28.	46.	71.	48.	48.	92.	67.	77.	116.	79.	83.	130.	115.
7023	36.	47.	80.	59.	65.	114.	89.	93.	144.	114.	121.	159.	95.
7024	42.	51.	89.	57.	71.	120.	88.	84.	129.	93.	92.	140.	97.
7025	32.	49.	75.	52.	63.	115.	90.	83.	122.	82.	88.	65.	95.
7026	33.	40.	63.	43.	52.	92.	65.	64.	102.	70.	72.	117.	80.
7027	33.	41.	64.	50.	56.	102.	68.	62.	117.	77.	90.	122.	90.
7028	33.	a	59.	45.	54.	94.	71.	76.	128.	80.	83.	127.	92.
7029	31.	40.	62.	47.	51.	90.	82.	73.	116.	74.	73.	112.	95.
7030	28.	41.	63.	51.	49.	85.	79.	45.	97.	65.	66.	109.	71.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value could not be calculated.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 2): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY					
7001	96.	154.	100.	102.	155.	94.	92.	143.	107.	87.	153.	87.	88.
7002	87.	161.	103.	97.	179.	95.	107.	151.	a	107.	187.	107.	86.
7003	86.	128.	87.	91.	151.	92.	91.	149.	129.	101.	140.	94.	119.
7004	134.	130.	86.	96.	155.	137.	80.	162.	a	134.	a	141.	a
7005	113.	132.	116.	117.	197.	110.	127.	185.	112.	115.	197.	114.	118.
7006	102.	154.	108.	99.	179.	107.	119.	178.	122.	94.	181.	102.	110.
7007	124.	192.	125.	133.	184.	143.	126.	186.	110.	137.	184.	109.	127.
7008	106.	150.	96.	106.	151.	103.	105.	145.	97.	100.	142.	88.	105.
7009	70.	96.	74.	73.	103.	78.	70.	111.	77.	77.	107.	70.	76.
7010	98.	143.	93.	105.	155.	109.	97.	142.	113.	108.	136.	76.	115.
7011	88.	121.	82.	88.	131.	84.	89.	125.	76.	85.	119.	72.	77.
7012	92.	122.	80.	88.	118.	85.	81.	114.	79.	82.	125.	78.	101.
7013	81.	120.	89.	94.	119.	90.	90.	136.	89.	86.	114.	87.	85.
5450	103.	153.	36.	a	186.	130.	68.	178.	133.	111.	a	107.	144.
7015	79.	127.	97.	94.	111.	98.	90.	135.	88.	82.	95.	88.	84.
7016	87.	135.	89.	96.	134.	99.	99.	156.	93.	119.	136.	96.	97.
7017	83.	131.	87.	84.	125.	83.	83.	120.	76.	131.	135.	109.	134.
7018	79.	111.	73.	82.	114.	78.	77.	121.	76.	85.	109.	81.	77.
7019	56.	132.	91.	86.	128.	96.	87.	139.	94.	87.	121.	114.	104.
7020	102.	191.	a	135.	173.	128.	133.	186.	121.	115.	68.	130.	131.
7021	100.	156.	110.	105.	147.	101.	103.	157.	114.	104.	125.	113.	98.
7022	82.	126.	97.	95.	139.	90.	86.	139.	104.	90.	117.	101.	93.
7023	125.	160.	134.	111.	173.	133.	119.	175.	140.	118.	150.	136.	100.
7024	100.	154.	108.	113.	146.	93.	99.	149.	126.	97.	145.	102.	117.
7025	94.	145.	123.	115.	163.	109.	109.	170.	136.	69.	162.	111.	117.
7026	79.	120.	100.	87.	132.	77.	94.	110.	86.	70.	114.	76.	88.
7027	84.	117.	93.	87.	129.	88.	91.	132.	98.	82.	134.	95.	87.
7028	89.	135.	90.	85.	120.	25.	86.	126.	79.	87.	124.	92.	86.
7029	85.	149.	159.	69.	a	131.	149.	a	a	153.	196.	a	112.
7030	77.	107.	75.	80.	110.	53.	61.	92.	75.	45.	87.	80.	75.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 3): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	61 - 64	64 - 66	66 - 68a	99b-101	101 -103	103 -106	106 -108	108 -110	110 -113	113 -115	115 -117	117 -120	120 -122
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY						
7001	149.	86.	92.	81.	102.	135.	84.	84.	142.	90.	76.	128.	86.
7002	187.	104.	123.	121.	119.	166.	139.	124.	179.	133.	139.	205.	124.
7003	132.	92.	99.	90.	90.	126.	c	d	186.	143.	79.	59.	d
7004	c	c	108.	80.	94.	134.	109.	79.	146.	130.	91.	131.	83.
7005	171.	131.	126.	93.	76.	169.	129.	119.	153.	98.	61.	94.	122.
7006	158.	96.	112.	86.	93.	125.	99.	83.	137.	85.	84.	164.	78.
7007	179.	145.	131.	114.	120.	160.	126.	106.	186.	110.	114.	195.	126.
7008	143.	99.	101.	86.	88.	134.	92.	90.	140.	83.	81.	140.	92.
7009	101.	73.	75.	59.	65.	99.	76.	76.	104.	39.	59.	101.	61.
7010	137.	107.	94.	93.	101.	188.	99.	101.	142.	80.	83.	141.	83.
7011	114.	85.	76.	79.	82.	129.	85.	82.	127.	75.	81.	119.	80.
7012	134.	86.	77.	70.	83.	126.	81.	81.	123.	74.	88.	129.	78.
7013	128.	82.	82.	84.	76.	c	80.	77.	86.	88.	84.	122.	23.
5450	191.	c	d	115.	105.	d	124.	52.	c	73.	116.	216.	153.
7015	137.	98.	81.	83.	82.	134.	82.	84.	140.	98.	122.	146.	c
7016	148.	96.	103.	102.	99.	129.	95.	108.	123.	89.	92.	142.	80.
7017	185.	78.	80.	75.	124.	172.	d	164.	188.	102.	66.	195.	67.
7018	127.	85.	80.	74.	70.	99.	79.	69.	100.	65.	71.	105.	62.
7019	160.	91.	103.	90.	91.	137.	89.	93.	132.	96.	115.	139.	102.
7020	177.	126.	128.	119.	112.	179.	124.	141.	212.	127.	134.	184.	146.
7021	155.	96.	107.	93.	87.	135.	93.	91.	126.	90.	103.	129.	91.
7022	127.	85.	95.	89.	81.	139.	94.	92.	131.	108.	117.	150.	80.
7023	160.	137.	119.	111.	126.	171.	114.	115.	172.	122.	122.	185.	d
7024	152.	117.	94.	108.	110.	151.	106.	100.	147.	125.	100.	174.	122.
7025	137.	127.	124.	90.	90.	145.	97.	84.	96.	88.	102.	157.	107.
7026	104.	71.	79.	102.	69.	110.	81.	72.	109.	79.	73.	119.	54.
7027	135.	64.	91.	70.	74.	29.	97.	72.	121.	83.	89.	108.	80.
7028	141.	94.	101.	85.	88.	102.	93.	87.	124.	86.	95.	125.	103.
7029	217.	135.	135.	85.	120.	181.	143.	137.	170.	142.	140.	154.	122.
7030	103.	72.	70.	70.	52.	101.	73.	74.	122.	49.	26.	28.	44.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a water consumption value recorded after cohabitation.
c. Spilled water precluded the calculation of this value.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 4): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	122 -124	124 -127	127 -129	129 -131	131 -134	134 -136	136 -138
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY
7001	82.	135.	78.	87.	126.	95.	72.
7002	119.	202.	117.	143.	203.	163.	128.
7003	147.	134.	142.	112.	210.	107.	125.
7004	80.	148.	121.	156.	94.	98.	126.
7005	73.	146.	109.	102.	161.	107.	78.
7006	86.	141.	75.	106.	110.	84.	74.
7007	125.	151.	128.	a	178.	120.	137.
7008	89.	121.	86.	91.	119.	96.	94.
7009	64.	89.	57.	68.	89.	63.	60.
7010	74.	52.	14.	135.	174.	87.	123.
7011	81.	116.	80.	77.	115.	82.	85.
7012	83.	111.	75.	67.	116.	77.	59.
7013	91.	138.	85.	52.	120.	92.	82.
5450	116.	195.	150.				
7015	143.	122.	129.	90.	159.	102.	116.
7016	91.	136.	96.	95.	131.	92.	98.
7017	76.	105.	80.	103.	156.	54.	77.
7018	73.	96.	70.	76.	91.	61.	62.
7019	76.	117.	84.	82.	117.	105.	88.
7020	104.	219.	130.	131.	165.	156.	114.
7021	81.	129.	101.	83.	128.	101.	90.
7022	96.	140.	a	91.	132.	90.	66.
7023	118.	194.	105.	118.	174.	108.	110.
7024	98.	123.	104.	97.	136.	112.	112.
7025	55.	61.	97.	79.	137.	101.	118.
7026	58.	105.	79.	67.	118.	79.	77.
7027	71.	110.	81.	84.	115.	74.	68.
7028	81.	97.	103.	94.	125.		
7029	105.	141.	119.				
7030	71.	107.	74.				

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 5): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY						
7031	33.	44.	79.	60.	65.	115.	80.	82.	117.	80.	92.	153.	101.
7032	30.	39.	63.	47.	55.	85.	79.	69.	114.	77.	76.	116.	74.
7033	32.	45.	63.	50.	55.	82.	67.	68.	109.	77.	76.	115.	77.
7034	33.	40.	70.	41.	57.	68.	70.	71.	113.	73.	78.	117.	78.
7035	37.	a	82.	41.	62.	97.	75.	76.	127.	89.	89.	134.	95.
7036	28.	39.	65.	50.	52.	67.	68.	66.	102.	75.	79.	118.	75.
7037	31.	30.	74.	51.	41.	85.	66.	72.	112.	74.	83.	124.	86.
7038	27.	36.	68.	47.	50.	86.	64.	72.	107.	74.	78.	116.	85.
7039	32.	3.	85.	51.	62.	92.	72.	76.	134.	86.	96.	118.	83.
7040	34.	37.	64.	50.	50.	92.	66.	70.	111.	76.	80.	129.	85.
7041	36.	40.	73.	55.	56.	93.	65.	78.	119.	83.	89.	135.	94.
7042	29.	39.	69.	52.	58.	101.	68.	80.	130.	94.	102.	150.	96.
7043	30.	33.	66.	52.	52.	85.	65.	70.	112.	73.	77.	120.	84.
7044	23.	23.	23.	52.	52.	99.	79.	80.	124.	94.	105.	145.	108.
7045	31.	37.	65.	44.	50.	91.	67.	71.	108.	76.	78.	125.	93.
7046	30.	34.	63.	46.	50.	87.	64.	65.	103.	78.	72.	114.	83.
7047	28.	36.	62.	48.	52.	87.	65.	71.	123.	83.	83.	134.	91.
7048	29.	40.	67.	52.	55.	75.	63.	66.	109.	74.	81.	122.	98.
7049	30.	42.	64.	45.	50.	86.	69.	80.	115.	27.	93.	133.	105.
7050	35.	43.	67.	49.	57.	66.	74.	82.	110.	78.	84.	124.	104.
7051	30.	36.	75.	49.	53.	94.	68.	78.	101.	69.	75.	99.	76.
7052	29.	42.	60.	42.	45.	76.	58.	61.	91.	62.	68.	109.	87.
7053	36.	44.	76.	49.	52.	92.	65.	70.	105.	71.	77.	98.	85.
7054	32.	43.	69.	49.	58.	97.	74.	82.	130.	93.	110.	133.	99.
7055	29.	36.	62.	45.	52.	84.	69.	71.	114.	77.	85.	106.	84.
7056	36.	47.	75.	56.	57.	94.	67.	72.	104.	74.	83.	113.	98.
7057	23.	38.	63.	39.	42.	71.	62.	73.	108.	68.	78.	95.	73.
7058	36.	52.	77.	54.	55.	101.	75.	80.	112.	87.	106.	129.	135.
7059	34.	44.	64.	47.	46.	88.	62.	68.	98.	72.	78.	116.	81.
7060	19.	46.	61.	45.	55.	90.	67.	64.	113.	70.	74.	127.	106.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 6): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY						
7031	117.	147.	124.	111.	169.	92.	91.	120.	87.	78.	118.	77.	82.
7032	77.	128.	78.	70.	122.	70.	80.	113.	74.	66.	104.	66.	63.
7033	83.	125.	85.	76.	130.	80.	77.	115.	87.	75.	121.	73.	71.
7034	91.	115.	88.	88.	143.	84.	52.	140.	102.	90.	146.	90.	127.
7035	95.	73.	77.	87.	143.	69.	91.	137.	95.	92.	151.	80.	89.
7036	78.	122.	79.	79.	130.	82.	82.	71.	86.	83.	125.	81.	84.
7037	90.	137.	90.	82.	143.	84.	82.	121.	94.	86.	126.	86.	88.
7038	87.	134.	88.	90.	154.	85.	93.	137.	101.	98.	159.	105.	105.
7039	92.	128.	89.	96.	154.	86.	91.	141.	97.	96.	141.	79.	88.
7040	94.	89.	94.	94.	123.	82.	93.	135.	78.	91.	125.	82.	87.
7041	96.	137.	102.	93.	145.	107.	104.	141.	119.	98.	128.	104.	109.
7042	109.	141.	101.	102.	134.	106.	81.	163.	87.	101.	151.	101.	124.
7043	91.	127.	94.	86.	139.	89.	87.	138.	91.	88.	123.	72.	90.
7044	106.	137.	72.	98.	144.	101.	104.	146.	77.	107.	135.	71.	108.
7045	63.	123.	94.	92.	73.	98.	93.	135.	94.	102.	94.	54.	79.
7046	79.	115.	83.	80.	115.	81.	80.	116.	76.	78.	a	75.	72.
7047	102.	145.	112.	105.	153.	103.	97.	164.	97.	115.	161.	117.	110.
7048	90.	136.	103.	101.	138.	101.	83.	126.	104.	88.	114.	110.	85.
7049	91.	145.	120.	123.	164.	115.	122.	151.	a	135.	148.	a	111.
7050	94.	134.	103.	97.	138.	97.	91.	149.	98.	98.	64.	101.	86.
7051	70.	106.	75.	73.	110.	73.	77.	113.	78.	77.	96.	84.	73.
7052	a	129.	109.	108.	140.	116.	110.	137.	113.	95.	133.	127.	104.
7053	74.	117.	85.	85.	117.	89.	81.	121.	81.	87.	121.	98.	86.
7054	105.	a	132.	a	a	145.	b	192.	148.	110.	201.	145.	149.
7055	94.	138.	139.	96.	124.	94.	86.	133.	99.	86.	48.	77.	91.
7056	94.	131.	107.	96.	133.	88.	94.	147.	110.	98.	127.	96.	85.
7057	65.	101.	78.	74.	119.	80.	75.	143.	95.	88.	117.	99.	91.
7058	103.	160.	100.	110.	163.	132.	128.	187.	a	124.	166.	b	123.
7059	82.	130.	83.	86.	123.	84.	93.	133.	90.	91.	122.	104.	89.
7060	84.	125.	85.	83.	140.	60.	73.	127.	95.	114.	139.	140.	116.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 7): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	61 - 64	64 - 66	66 - 68a	99b-101	101 -103	103 -106	106 -108	108 -110	110 -113	113 -115	115 -117	117 -120	120 -122
RAT #	DOSAGE GROUP 2							0.3 MG/KG/DAY					
7031	118.	75.	93.	80.	76.	110.	86.	79.	120.	77.	84.	127.	85.
7032	101.	72.	79.	71.	80.	126.	88.	77.	110.	70.	76.	96.	89.
7033	110.	72.	82.	71.	73.	105.	80.	75.	96.	76.	78.	118.	83.
7034	153.	101.	97.	68.	104.	150.	93.	97.	131.	82.	78.	131.	87.
7035	136.	87.	93.	44.	37.	93.	73.	55.	128.	41.	65.	130.	77.
7036	116.	76.	85.	75.	74.	106.	80.	77.	113.	88.	79.	110.	79.
7037	124.	94.	74.	78.	86.	138.	84.	84.	116.	93.	84.	123.	91.
7038	216.	c	124.	150.	95.	169.	130.	116.	156.	104.	113.	184.	129.
7039	c	133.	91.	83.	98.	121.	87.	85.	123.	60.	77.	130.	97.
7040	128.	101.	93.	79.	101.	136.	94.	95.	151.	90.	85.	145.	88.
7041	138.	93.	88.	86.	87.	142.	113.	103.	c	d	104.	157.	112.
7042	145.	130.	119.	86.	111.	146.	112.	95.	149.	90.	97.	126.	87.
7043	125.	88.	80.	85.	75.	150.	84.	84.	148.	69.	79.	135.	32.
7044	147.	104.	95.	86.	95.	131.	94.	88.	121.	57.	76.	129.	74.
7045	130.	87.	97.	55.	44.	102.	96.	86.	29.	d	22.	140.	96.
7046	97.	77.	73.	61.	56.	96.	54.	61.	92.	64.	69.	93.	68.
7047	171.	111.	103.	111.	80.	143.	87.	97.	140.	130.	100.	142.	80.
7048	123.	119.	124.	87.	77.	114.	79.	102.	114.	80.	76.	109.	77.
7049	174.	100.	125.	122.	107.	166.	88.	88.	146.	108.	133.	191.	122.
7050	136.	89.	94.	79.	99.	139.	70.	89.	151.	101.	102.	168.	90.
7051	103.	77.	76.	70.	72.	105.	68.	76.	100.	74.	66.	104.	67.
7052	170.	72.	132.	96.	103.	129.	90.	92.	129.	90.	109.	128.	79.
7053	128.	85.	99.	86.	71.	124.	85.	82.	131.	87.	94.	134.	92.
7054	162.	c	c	d	119.	168.	106.	99.	179.	127.	147.	157.	d
7055	124.	90.	93.	79.	87.	143.	88.	56.	66.	13.	49.	132.	101.
7056	140.	85.	104.	89.	88.	124.	86.	82.	113.	82.	90.	83.	118.
7057	151.	76.	95.	125.	79.	164.	108.	114.	126.	93.	97.	128.	83.
7058	199.	140.	143.	123.	152.	202.	96.	89.	c	120.	111.	209.	140.
7059	136.	95.	106.	87.	92.	135.	84.	98.	138.	92.	89.	149.	105.
7060	123.	90.	106.	67.	161.	115.	81.	181.	122.	68.	145.	63.	67.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a water consumption value recorded after cohabitation.
c. Spilled water precluded the calculation of this value.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 8): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	122 -124	124 -127	127 -129	129 -131	131 -134	134 -136	136 -138
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY
7031	79.	116.	82.	88.	127.	80.	68.
7032	66.	125.	93.	70.	19.	92.	77.
7033	72.	96.	63.	67.	102.	78.	74.
7034	92.	135.	86.	81.	119.	92.	81.
7035	78.	131.	88.	81.	109.	66.	63.
7036	69.	115.	81.	67.	99.	90.	80.
7037	77.	109.	82.	75.	114.	65.	89.
7038	94.	150.	122.	96.	148.	111.	117.
7039	78.	114.	81.	110.	143.	115.	87.
7040	91.	120.	86.	85.	122.	79.	90.
7041	103.	137.	84.	92.	128.	94.	87.
7042	95.	a	117.	94.	127.	108.	93.
7043	97.	112.	75.	90.	115.	93.	81.
7044	74.	72.	63.	95.	122.	100.	87.
7045	91.	76.	93.	65.	133.	100.	87.
7046	61.	78.	55.	67.	82.	62.	64.
7047	78.	106.	109.	129.	148.	105.	114.
7048	80.	121.	73.	80.	110.	86.	87.
7049	82.	179.	118.	122.	148.	121.	128.
7050	82.	143.	90.	81.	130.	85.	74.
7051	56.	96.	56.	64.	93.	66.	62.
7052	121.	120.	80.	88.	116.	91.	96.
7053	74.	139.	98.	88.	129.	84.	77.
7054	129.	160.	106.	117.	143.	125.	151.
7055	46.	80.	73.	90.	128.	95.	85.
7056	82.	123.	85.	76.	114.	83.	87.
7057	91.	119.	84.	81.	132.	78.	79.
7058	77.	137.	101.	87.	167.	84.	116.
7059	94.	124.	89.	81.	129.	91.	89.
7060	137.	123.	74.				

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 9): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY					
7061	38.	41.	84.	54.	57.	94.	73.	71.	116.	82.	83.	149.	87.
7062	39.	3.	81.	59.	59.	107.	86.	81.	136.	90.	97.	171.	117.
7063	39.	50.	89.	54.	65.	101.	72.	39.	138.	90.	83.	134.	98.
7064	37.	40.	71.	58.	61.	98.	73.	79.	124.	82.	84.	130.	81.
7065	34.	45.	76.	54.	65.	98.	74.	84.	129.	92.	103.	152.	103.
7066	33.	38.	72.	54.	60.	99.	81.	76.	104.	77.	75.	118.	89.
7067	30.	15.	68.	46.	55.	89.	70.	69.	107.	74.	79.	125.	84.
7068	25.	33.	66.	44.	48.	78.	59.	62.	98.	65.	65.	108.	69.
7069	25.	24.	43.	6.	40.	63.	50.	50.	82.	58.	53.	95.	66.
7070	27.	36.	65.	53.	64.	95.	73.	82.	123.	82.	85.	141.	89.
7071	31.	33.	61.	48.	49.	81.	59.	65.	96.	68.	70.	110.	79.
7072	16.	35.	56.	47.	48.	82.	64.	69.	106.	78.	76.	120.	84.
7073	34.	42.	62.	62.	54.	103.	72.	74.	120.	99.	94.	151.	115.
7074	27.	34.	61.	48.	51.	84.	62.	64.	103.	70.	69.	109.	75.
7075	25.	34.	54.	44.	48.	74.	62.	66.	100.	62.	81.	110.	86.
7076	31.	46.	68.	44.	51.	82.	61.	67.	91.	74.	86.	134.	73.
7077	32.	43.	63.	43.	41.	73.	56.	63.	95.	61.	70.	104.	77.
7078	32.	44.	73.	54.	54.	92.	68.	74.	118.	78.	93.	140.	95.
7079	30.	37.	59.	41.	47.	92.	71.	72.	115.	78.	86.	125.	102.
7080	32.	39.	57.	46.	51.	90.	65.	73.	108.	73.	82.	68.	95.
7081	27.	40.	67.	48.	55.	101.	82.	80.	117.	73.	92.	135.	100.
7082	33.	49.	81.	56.	63.	106.	88.	90.	136.	98.	125.	a	122.
7083	30.	37.	56.	42.	49.	87.	64.	66.	91.	73.	75.	115.	81.
7084	27.	39.	64.	46.	60.	110.	62.	75.	125.	72.	101.	120.	96.
7085	41.	51.	76.	52.	57.	103.	72.	77.	121.	85.	89.	99.	96.
7086	37.	50.	81.	55.	59.	97.	65.	71.	119.	73.	80.	125.	90.
7087	37.	47.	76.	51.	57.	97.	74.	71.	122.	82.	80.	130.	91.
7088	34.	43.	68.	50.	55.	94.	73.	77.	124.	84.	88.	136.	103.
7089	30.	37.	62.	46.	54.	90.	66.	65.	105.	67.	73.	111.	75.
7090	36.	45.	74.	53.	58.	100.	58.	72.	114.	73.	81.	113.	82.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 10): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY					
7061	70.	152.	109.	111.	151.	92.	103.	124.	105.	98.	162.	91.	91.
7062	118.	227.	142.	126.	224.	145.	131.	163.	146.	121.	191.	131.	116.
7063	102.	162.	103.	114.	186.	123.	111.	191.	128.	123.	169.	132.	129.
7064	87.	119.	91.	90.	153.	90.	86.	127.	91.	84.	130.	74.	82.
7065	99.	146.	104.	107.	157.	94.	106.	139.	108.	144.	161.	96.	97.
7066	85.	139.	87.	96.	136.	99.	86.	137.	105.	105.	174.	83.	82.
7067	89.	140.	90.	93.	146.	88.	107.	152.	101.	98.	139.	100.	92.
7068	72.	113.	78.	73.	123.	73.	81.	120.	75.	81.	123.	64.	75.
7069	74.	92.	76.	69.	100.	74.	79.	117.	82.	76.	119.	72.	77.
7070	104.	124.	100.	83.	128.	97.	101.	115.	105.	102.	158.	100.	120.
7071	76.	118.	86.	80.	124.	84.	81.	123.	81.	86.	122.	87.	82.
7072	86.	117.	81.	83.	115.	78.	72.	105.	69.	68.	106.	75.	73.
7073	105.	156.	110.	130.	163.	122.	124.	186.	130.	119.	172.	125.	110.
7074	80.	125.	87.	87.	98.	97.	83.	129.	88.	83.	89.	88.	74.
7075	48.	127.	85.	83.	95.	80.	75.	120.	90.	83.	67.	60.	71.
7076	97.	146.	88.	84.	165.	68.	101.	123.	84.	73.	146.	114.	83.
7077	72.	120.	86.	84.	119.	76.	88.	160.	116.	a	116.	129.	105.
7078	98.	157.	106.	111.	153.	88.	111.	180.	131.	124.	118.	141.	134.
7079	100.	133.	117.	114.	165.	110.	114.	162.	110.	114.	126.	115.	112.
7080	84.	143.	100.	100.	136.	93.	83.	134.	99.	89.	69.	81.	91.
7081	99.	142.	100.	98.	136.	94.	91.	140.	100.	97.	114.	101.	93.
7082	113.	186.	a	108.	189.	122.	142.	166.	a	b	187.	a	b
7083	79.	124.	82.	82.	120.	91.	86.	159.	95.	88.	121.	85.	89.
7084	95.	142.	104.	88.	146.	86.	87.	148.	99.	93.	115.	a	b
7085	94.	144.	101.	100.	133.	103.	93.	153.	104.	72.	144.	105.	100.
7086	85.	130.	90.	92.	130.	89.	89.	107.	92.	79.	124.	76.	84.
7087	99.	167.	129.	113.	127.	82.	86.	130.	92.	99.	139.	84.	99.
7088	104.	157.	112.	110.	157.	106.	100.	153.	105.	99.	163.	110.	109.
7089	78.	118.	86.	84.	123.	91.	88.	139.	86.	79.	125.	85.	86.
7090	78.	126.	76.	79.	a	85.	68.	125.	86.	80.	117.	84.	85.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 11): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	61 - 64	64 - 66	66 - 68a	99b-101	101 -103	103 -106	106 -108	108 -110	110 -113	113 -115	115 -117	117 -120	120 -122
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY					
7061	146.	96.	101.	96.	104.	139.	90.	88.	133.	104.	85.	152.	125.
7062	198.	115.	109.	126.	143.	179.	130.	134.	172.	112.	126.	184.	148.
7063	165.	145.	142.	130.	c	175.	126.	118.	169.	132.	94.	148.	102.
7064	127.	86.	77.	74.	88.	100.	91.	83.	106.	89.	82.	109.	89.
7065	145.	91.	98.	88.	84.	132.	96.	d	143.	79.	92.	158.	94.
7066	202.	116.	112.	96.	95.	162.	131.	84.	134.	104.	105.	177.	101.
7067	145.	85.	100.	91.	104.	139.	81.	80.	152.	90.	77.	126.	85.
7068	113.	77.	78.	76.	74.	115.	79.	78.	112.	72.	70.	120.	76.
7069	104.	82.	70.	70.	83.	125.	89.	86.	120.	70.	84.	140.	72.
7070	155.	104.	107.	83.	89.	144.	93.	105.	150.	91.	103.	156.	83.
7071	124.	86.	77.	74.	69.	107.	76.	71.	112.	67.	79.	117.	78.
7072	107.	81.	67.	70.	67.	100.	62.	82.	104.	77.	77.	110.	79.
7073	174.	132.	85.	106.	104.	158.	116.	99.	147.	79.	113.	160.	148.
7074	112.	74.	75.	70.	75.	117.	85.	86.	94.	87.	82.	122.	81.
7075	101.	65.	68.	58.	75.	114.	68.	81.	100.	79.	79.	109.	78.
7076	112.	81.	123.	85.	93.	152.	77.	83.	127.	102.	88.	128.	99.
7077	135.	100.	86.	78.	87.	125.	78.	80.	112.	80.	84.	127.	84.
7078	163.	122.	147.	134.	133.	161.	138.	119.	174.	c	125.	c	128.
7079	144.	97.	122.	83.	103.	130.	95.	81.	139.	100.	88.	126.	83.
7080	127.	82.	96.	92.	87.	137.	90.	84.	118.	89.	90.	141.	79.
7081	146.	96.	114.	74.	88.	131.	94.	89.	123.	83.	80.	123.	95.
7082	186.	149.	d	d	d	d	153.	d	c	119.	142.	c	d
7083	122.	86.	101.	79.	84.	108.	85.	80.	117.	78.	77.	121.	62.
7084	133.	148.	114.	89.	115.	c	101.	c	d	113.	78.	101.	96.
7085	138.	109.	107.	116.	120.	144.	57.	51.	116.	73.	104.	213.	119.
7086	135.	83.	96.	83.	80.	116.	72.	80.	115.	76.	87.	117.	86.
7087	136.	98.	116.	77.	89.	119.	87.	84.	134.	114.	98.	159.	106.
7088	171.	120.	120.	124.	113.	147.	95.	116.	164.	128.	125.	158.	117.
7089	125.	88.	81.	89.	87.	125.	82.	80.	124.	86.	88.	134.	81.
7090	122.	79.	82.	75.	79.	118.	86.	90.	122.	119.	75.	108.	98.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a water consumption value recorded after cohabitation.
c. Spilled water precluded the calculation of this value.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 12): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	122 -124	124 -127	127 -129	129 -131	131 -134	134 -136	136 -138
RAT #	DOSAGE GROUP 3						3.0 MG/KG/DAY
7061	a	174.	75.	100.	156.	144.	103.
7062	110.	143.	103.	104.	218.	154.	150.
7063	106.	159.	119.	122.	152.	127.	112.
7064	83.	102.	47.	72.	84.	84.	68.
7065	91.	148.	97.	90.	136.	89.	84.
7066	106.	147.	102.	86.	131.	97.	102.
7067	83.	126.	91.	80.	113.	90.	67.
7068	73.	105.	71.	73.	105.	81.	68.
7069	a	123.	98.	87.	112.	89.	99.
7070	103.	138.	102.	109.	141.	102.	98.
7071	85.	113.	89.	73.	120.	77.	79.
7072	67.	94.	83.	72.	101.	74.	74.
7073	111.	157.	93.	84.	138.	107.	97.
7074	87.	60.	90.	67.	113.	92.	72.
7075	49.	101.	54.	48.	97.	69.	62.
7076	111.	136.	80.	98.	156.	108.	119.
7077	65.	115.	76.	93.	140.	91.	95.
7078	104.	182.	128.	144.	177.	122.	117.
7079	94.	147.	99.	107.	131.	92.	99.
7080	74.	101.	79.	70.	102.	81.	68.
7081	73.	113.	72.	28.	79.	180.	70.
7082	b	30.	b	48.	85.	157.	141.
7083	73.	112.	61.	128.	124.	178.	75.
7084	107.	144.	118.	132.	75.	a	91.
7085	107.	196.	117.	112.	177.	129.	117.
7086	77.	125.	79.	116.	41.	75.	80.
7087	81.	158.	88.	142.	60.	75.	86.
7088	90.	147.	125.	124.	46.	113.	98.
7089	69.	117.	78.	67.	39.	70.	71.
7090	77.	129.	103.	98.	121.	78.	106.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 13): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY					
7091	29.	45.	68.	49.	54.	82.	62.	81.	113.	84.	89.	139.	91.
7092	29.	39.	67.	44.	54.	73.	62.	70.	104.	68.	72.	113.	77.
7093	29.	43.	74.	45.	51.	86.	63.	75.	100.	73.	84.	136.	85.
7094	26.	37.	62.	39.	50.	76.	59.	66.	109.	65.	79.	115.	72.
7095	35.	42.	74.	50.	63.	103.	75.	79.	120.	84.	88.	142.	92.
7096	36.	47.	87.	61.	72.	111.	79.	77.	129.	97.	101.	165.	108.
7097	31.	43.	67.	48.	56.	88.	64.	75.	94.	74.	72.	110.	72.
7098	28.	42.	84.	55.	63.	86.	64.	80.	111.	79.	83.	139.	97.
7099	21.	35.	57.	40.	50.	73.	52.	65.	97.	66.	67.	114.	84.
7100	22.	30.	54.	39.	44.	73.	53.	58.	99.	69.	70.	117.	80.
7101	31.	39.	64.	48.	49.	87.	62.	67.	105.	72.	65.	114.	77.
7102	28.	34.	60.	47.	48.	81.	65.	58.	108.	74.	73.	113.	78.
7103	34.	43.	71.	53.	58.	103.	72.	79.	117.	84.	78.	137.	a
7104	33.	36.	75.	10.	61.	111.	80.	83.	124.	82.	85.	130.	94.
7105	36.	5.	58.	56.	56.	96.	78.	80.	138.	101.	96.	151.	111.
7106	29.	43.	62.	50.	55.	90.	72.	71.	121.	87.	86.	150.	99.
7107	27.	33.	61.	47.	50.	83.	72.	66.	102.	66.	69.	114.	67.
7108	36.	42.	69.	55.	62.	104.	68.	90.	135.	91.	96.	152.	117.
7109	12.	37.	69.	49.	49.	79.	78.	77.	122.	86.	100.	112.	129.
7110	29.	29.	61.	50.	45.	86.	71.	72.	109.	78.	74.	88.	58.
7111	14.	34.	53.	33.	42.	66.	67.	62.	102.	72.	70.	107.	72.
7112	29.	40.	54.	40.	47.	82.	94.	73.	117.	74.	88.	128.	103.
7113	35.	43.	69.	50.	63.	98.	75.	74.	115.	79.	84.	134.	109.
7114	27.	42.	68.	48.	54.	94.	72.	74.	104.	81.	81.	123.	93.
7115	35.	50.	75.	57.	61.	108.	76.	86.	130.	91.	111.	79.	86.
7116	38.	46.	69.	50.	58.	98.	62.	73.	109.	74.	76.	124.	84.
7117	35.	51.	79.	57.	62.	107.	76.	81.	123.	72.	90.	140.	103.
7118	28.	50.	74.	53.	63.	108.	74.	79.	135.	84.	85.	128.	84.
7119	32.	48.	77.	56.	67.	109.	81.	85.	125.	80.	89.	130.	94.
7120	8.	46.	56.	55.	57.	91.	72.	67.	112.	83.	83.	128.	96.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 14): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 4						30.0 MG/KG/DAY						
7091	115.	174.	115.	112.	205.	129.	a	209.	135.	109.	216.	135.	142.
7092	83.	120.	76.	72.	123.	82.	90.	128.	82.	90.	127.	83.	85.
7093	82.	133.	82.	90.	152.	83.	76.	132.	88.	97.	146.	85.	85.
7094	76.	118.	86.	90.	141.	82.	83.	131.	79.	80.	143.	81.	92.
7095	138.	116.	98.	101.	153.	125.	105.	138.	111.	99.	142.	61.	76.
7096	113.	147.	111.	104.	171.	127.	137.	153.	a	135.	173.	107.	125.
7097	79.	120.	77.	79.	123.	81.	83.	109.	79.	72.	124.	79.	79.
7098	94.	157.	108.	102.	157.	97.	98.	143.	97.	100.	143.	84.	102.
7099	87.	104.	85.	82.	128.	51.	92.	129.	85.	80.	141.	68.	87.
7100	89.	101.	84.	83.	101.	76.	73.	129.	86.	83.	111.	45.	56.
7101	85.	115.	83.	79.	121.	90.	83.	119.	83.	72.	110.	65.	70.
7102	80.	111.	82.	85.	122.	79.	84.	124.	84.	90.	119.	73.	83.
7103	97.	139.	94.	108.	143.	103.	101.	137.	85.	93.	151.	88.	101.
7104	91.	126.	99.	86.	87.	96.	81.	123.	67.	83.	112.	67.	91.
7105	116.	135.	116.	108.	119.	75.	107.	174.	5.	123.	117.	77.	93.
7106	110.	143.	110.	102.	177.	110.	121.	165.	109.	103.	139.	83.	123.
7107	75.	123.	75.	70.	111.	79.	70.	107.	78.	74.	101.	73.	72.
7108	115.	190.	140.	138.	196.	137.	118.	221.	122.	121.	208.	124.	a
7109	110.	165.	142.	b	170.	126.	101.	178.	109.	117.	146.	a	a
7110	62.	135.	97.	91.	135.	101.	88.	142.	102.	99.	138.	106.	91.
7111	73.	117.	108.	118.	160.	80.	70.	165.	76.	143.	137.	97.	124.
7112	89.	137.	92.	87.	134.	89.	86.	102.	87.	89.	119.	98.	89.
7113	102.	160.	111.	102.	146.	105.	96.	168.	108.	103.	126.	102.	107.
7114	83.	129.	92.	84.	127.	94.	92.	130.	87.	82.	124.	95.	84.
7115	97.	154.	100.	104.	151.	110.	107.	161.	109.	99.	140.	112.	100.
7116	83.	138.	95.	99.	121.	97.	87.	110.	81.	74.	117.	80.	81.
7117	101.	165.	114.	107.	150.	112.	109.	145.	113.	94.	135.	122.	124.
7118	79.	126.	89.	89.	136.	92.	116.	119.	113.	98.	167.	127.	142.
7119	88.	146.	101.	97.	132.	87.	81.	122.	79.	70.	118.	87.	98.
7120	88.	141.	104.	98.	152.	a	86.	159.	121.	104.	162.	113.	78.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 15): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	61 - 64	64 - 66	66 - 68a	99b-101	101 -103	103 -106	106 -108	108 -110	110 -113	113 -115	115 -117	117 -120	120 -122
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY					
7091	c	123.	111.	111.	86.	162.	124.	132.	c	d	126.	198.	117.
7092	135.	85.	91.	c	89.	117.	97.	93.	140.	83.	80.	118.	85.
7093	129.	83.	91.	79.	92.	122.	85.	82.	110.	60.	75.	109.	97.
7094	136.	65.	80.	81.	83.	135.	102.	100.	c	d	89.	c	98.
7095	129.	93.	91.	76.	93.	133.	106.	89.	106.	45.	c	93.	89.
7096	163.	114.	109.	91.	104.	157.	99.	97.	145.	108.	85.	c	97.
7097	110.	75.	83.	79.	77.	111.	79.	78.	105.	81.	67.	117.	94.
7098	150.	120.	115.	74.	79.	154.	85.	c	140.	99.	102.	152.	108.
7099	142.	85.	103.	70.	78.	111.	75.	74.	116.	59.	69.	102.	76.
7100	100.	73.	66.	55.	64.	105.	65.	69.	99.	61.	63.	113.	64.
7101	100.	79.	71.	69.	66.	116.	72.	73.	110.	66.	69.	120.	88.
7102	114.	83.	81.	83.	73.	120.	76.	76.	117.	69.	75.	109.	65.
7103	146.	101.	89.	101.	98.	165.	95.	102.	155.	96.	106.	176.	108.
7104	108.	87.	74.	78.	66.	102.	108.	81.	136.	34.	68.	119.	92.
7105	116.	127.	94.	82.	90.	143.	134.	100.	162.	116.	108.	175.	111.
7106	184.	129.	134.	115.	111.	158.	116.	113.	145.	116.	95.	170.	101.
7107	107.	77.	66.	79.	73.	102.	73.	64.	99.	71.	70.	102.	72.
7108	c	149.	120.	125.	106.	176.	119.	141.	152.	140.	154.	161.	113.
7109	166.	114.	122.	129.	143.	158.	146.	d	116.	149.	d	163.	c
7110	144.	111.	93.	83.	74.	137.	95.	96.	79.	86.	81.	131.	77.
7111	152.	77.	74.	73.	57.	73.	56.	d	91.	60.	68.	81.	66.
7112	123.	97.	125.	85.	70.	115.	75.	64.	117.	82.	86.	117.	62.
7113	142.	101.	116.	FOUND DEAD ON DAY 95 POSTWEANING									
7114	117.	92.	86.	77.	68.	126.	86.	66.	58.	56.	82.	106.	79.
7115	150.	95.	103.	FOUND DEAD ON DAY 82 POSTWEANING									
7116	132.	39.	80.	80.	75.	122.	82.	72.	127.	75.	79.	107.	70.
7117	185.	77.	105.	109.	107.	166.	115.	104.	185.	128.	110.	157.	123.
7118	121.	111.	152.	71.	88.	102.	77.	116.	193.	79.	74.	92.	106.
7119	128.	83.	83.	95.	82.	120.	73.	75.	88.	86.	71.	110.	120.
7120	148.	124.	128.	62.	90.	144.	98.	91.	148.	39.	110.	150.	96.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a water consumption value recorded after cohabitation.
c. Spilled water precluded the calculation of this value.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D19 (PAGE 16): WATER CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	122 -124	124 -127	127 -129	129 -131	131 -134	134 -136	136 -138
RAT #	DOSAGE GROUP 4						30.0 MG/KG/DAY
7091	107.	175.	123.	119.	164.	129.	130.
7092	51.	111.	70.	76.	104.	88.	71.
7093	84.	123.	71.	78.	a	80.	79.
7094	109.	128.	56.	119.	139.	102.	88.
7095	81.	85.	78.	97.	122.	99.	99.
7096	106.	149.	92.	105.	148.	98.	95.
7097	76.	97.	83.	69.	104.	79.	74.
7098	94.	121.	102.	94.	139.	113.	99.
7099	67.	72.	8.	67.	100.	74.	66.
7100	53.	98.	64.	66.	102.	66.	72.
7101	73.	97.	68.	65.	94.	71.	66.
7102	68.	113.	70.	77.	90.	75.	72.
7103	95.	147.	92.	111.	144.	95.	98.
7104	55.	111.	77.	91.	114.	89.	79.
7105	118.	69.	74.	81.	86.	83.	99.
7106	109.	144.	104.	102.	161.	93.	88.
7107	74.	92.	75.	70.	98.	74.	64.
7108	111.	184.	141.	167.	201.	126.	140.
7109	b	136.	94.	120.	168.	158.	149.
7110	85.	101.	77.	75.	117.	88.	72.
7111	63.	85.	56.	31.	FOUND DEAD ON DAY 131 POSTWEANING		
7112	76.	120.	82.	72.	117.	81.	79.
7113	FOUND DEAD ON DAY 95 POSTWEANING						
7114	83.	114.	84.	82.	126.	81.	77.
7115	FOUND DEAD ON DAY 82 POSTWEANING						
7116	68.	105.	81.	74.	108.	84.	87.
7117	103.	159.	117.	87.	172.	119.	104.
7118	81.	141.	84.	69.	160.	83.	64.
7119	81.	164.	84.	74.	91.	80.	101.
7120	114.	156.	119.				

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 1): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a	99b-106	106 -113	113 -120	120 -127
RAT #	DOSAGE GROUP 1								0 (CARRIER) MG/KG/DAY				
7001	92.	136.	169.	196.	208.	213.	204.	210.	195.	197.	202.	195.	196.
7002	90.	118.	153.	165.	191.	197.	193.	196.	193.	183.	183.	176.	179.
7003	96.	145.	175.	192.	207.	210.	209.	211.	209.	193.	213.	189.	207.
7004	93.	146.	177.	192.	208.	221.	225.	240.	224.	232.	236.	234.	223.
7005	102.	150.	184.	198.	218.	224.	224.	229.	217.	213.	229.	210.	3207.c
7006	87.	118.	150.	174.	197.	206.	214.	217.	197.	182.	191.	184.	193.
7007	95.	151.	196.	235.	262.	244.	262.	253.	249.	234.	249.	254.	226.
7008	93.	137.	162.	216.	236.	249.	255.	259.	241.	237.	235.	226.	227.
7009	78.	117.	145.	166.	196.	203.	214.	210.	201.	185.	194.	199.	183.
7010	84.	133.	172.	204.	238.	244.	254.	240.	239.	205.	181.	185.	151.
7011	75.	129.	161.	189.	214.	222.	222.	210.	177.	189.	198.	194.	183.
7012	83.	115.	148.	173.	195.	200.	209.	207.	197.	202.	201.	212.	201.
7013	94.	151.	198.	216.	235.	241.	244.	244.	238.	217.	210.	236.	227.
5450	91.	126.	171.	204.	227.	237.	231.	203.	196.	213.	187.	184.	190.
7015	92.	127.	169.	196.	214.	225.	220.	198.	212.	218.	200.	213.	221.
7016	88.	180.	172.	182.	212.	213.	211.	193.	199.	180.	167.	164.	154.
7017	80.	164.	188.	216.	234.	238.	235.	229.	227.	207.	197.	212.	177.
7018	d	112.	155.	174.	191.	196.	200.	192.	198.	171.	179.	188.	150.
7019	96.	139.	184.	222.	234.	244.	248.	244.	240.	217.	232.	219.	206.
7020	104.	136.	180.	213.	232.	250.	252.	266.	267.	281.	290.	274.	274.
7021	118.	155.	194.	243.	251.	281.	269.	268.	244.	234.	244.	248.	244.
7022	99.	136.	180.	212.	212.	228.	227.	220.	207.	203.	220.	219.	201.
7023	110.	165.	230.	257.	e	e	e	e	298.	254.	249.	256.	252.
7024	131.	161.	203.	e	e	242.	246.	252.	233.	227.	221.	222.	442.c
7025	107.	151.	180.	202.	218.	232.	227.	225.	215.	189.	190.	185.	459.c
7026	104.	144.	176.	190.	206.	220.	207.	220.	206.	193.	193.	185.	436.c
7027	107.	152.	197.	236.	229.	228.	225.	233.	215.	161.	216.	216.	416.c
7028	103.	149.	206.	229.	243.	254.	246.	225.	261.	219.	205.	213.	199.
7029	91.	130.	175.	198.	216.	230.	225.	222.	227.	213.	227.	209.	206.
7030	106.	140.	178.	194.	224.	277.	255.	179.	e	e	272.	243.	248.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a feed consumption value recorded after cohabitation.
c. Value was incorrectly recorded and was excluded from group averages and statistical analyses.
d. Soiled feed precluded the calculation of this value.
e. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 2): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS 127-134		
RAT #	DOSAGE GROUP 1	0 (CARRIER) MG/KG/DAY
7001	187.	
7002	185.	
7003	200.	
7004	222.	
7005	209.	
7006	191.	
7007	226.	
7008	224.	
7009	181.	
7010	131.	
7011	176.	
7012	196.	
7013	225.	
5450		
7015	215.	
7016	158.	
7017	211.	
7018	169.	
7019	218.	
7020	a	
7021	240.	
7022	207.	
7023	253.	
7024	210.	
7025	184.	
7026	181.	
7027	211.	
7028	b	
7029		
7030		

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.
b. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 3): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a	99b-106	106 -113	113 -120	120 -127
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY						
7031	109.	166.	203.	223.	245.	242.	235.	230.	213.	205.	217.	207.	200.
7032	93.	142.	183.	195.	214.	226.	212.	227.	192.	187.	210.	200.	195.
7033	93.	139.	181.	202.	222.	239.	236.	253.	230.	226.	224.	222.	223.
7034	100.	137.	194.	214.	231.	249.	239.	c	240.	248.	250.	244.	230.
7035	116.	157.	208.	231.	c	c	282.	c	263.	263.	246.	232.	247.
7036	84.	128.	164.	188.	211.	224.	198.	237.	226.	213.	221.	221.	212.
7037	93.	139.	178.	196.	231.	242.	238.	248.	236.	234.	237.	231.	221.
7038	103.	143.	181.	200.	224.	229.	236.	255.	252.	248.	252.	248.	246.
7039	78.	141.	181.	192.	214.	223.	224.	231.	280.	206.	222.	215.	197.
7040	101.	148.	183.	212.	227.	253.	219.	227.	232.	217.	217.	221.	210.
7041	95.	145.	179.	204.	215.	236.	235.	228.	219.	209.	206.	226.	212.
7042	93.	147.	175.	202.	218.	219.	227.	220.	215.	237.	230.	218.	185.
7043	99.	146.	186.	220.	243.	253.	266.	c	262.	246.	236.	232.	208.
7044	95.	135.	177.	199.	226.	204.	235.	229.	223.	211.	205.	185.	187.
7045	99.	143.	186.	204.	231.	253.	271.	264.	261.	249.	257.	265.	251.
7046	93.	161.	199.	225.	259.	261.	266.	264.	253.	218.	210.	250.	207.
7047	86.	174.	183.	213.	235.	237.	247.	236.	223.	234.	207.	210.	170.
7048	102.	146.	191.	231.	257.	268.	259.	248.	235.	237.	244.	231.	223.
7049	65.	139.	182.	189.	236.	249.	248.	245.	241.	231.	230.	234.	239.
7050	103.	126.	197.	226.	238.	246.	249.	244.	239.	239.	239.	235.	230.
7051	90.	138.	171.	184.	192.	207.	212.	205.	196.	195.	200.	193.	186.
7052	93.	129.	163.	182.	c	209.	203.	204.	201.	186.	203.	200.	191.
7053	109.	138.	175.	191.	209.	230.	240.	242.	239.	233.	260.	253.	233.
7054	101.	145.	198.	236.	253.	279.	294.	c	285.	276.	273.	c	278.
7055	95.	141.	183.	210.	231.	238.	227.	230.	225.	229.	243.	224.	227.
7056	111.	146.	187.	212.	212.	245.	246.	c	219.	206.	219.	201.	210.
7057	83.	118.	174.	197.	192.	213.	219.	219.	202.	188.	199.	196.	200.
7058	107.	148.	188.	221.	244.	250.	255.	255.	227.	223.	223.	217.	199.
7059	110.	131.	175.	207.	209.	216.	210.	213.	203.	280.	195.	192.	192.
7060	98.	148.	194.	227.	246.	248.	250.	242.	238.	223.	223.	201.	214.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a feed consumption value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 4): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS 127-134		
RAT #	DOSAGE GROUP 2	0.3 MG/KG/DAY
7031	246.	
7032	156.	
7033	219.	
7034	224.	
7035	231.	
7036	207.	
7037	218.	
7038	252.	
7039	208.	
7040	a	
7041	212.	
7042	235.	
7043	228.	
7044	195.	
7045	245.	
7046	208.	
7047	192.	
7048	227.	
7049	237.	
7050	231.	
7051	180.	
7052	190.	
7053	235.	
7054	288.	
7055	232.	
7056	204.	
7057	204.	
7058	228.	
7059	194.	
7060		

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 5): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a	99b-106	106 -113	113 -120	120 -127
RAT #	DOSAGE GROUP 3						3.0 MG/KG/DAY						
7061	110.	149.	183.	200.	208.	231.	224.	225.	209.	209.	209.	205.	190.
7062	109.	171.	218.	253.	263.	292.	288.	290.	300.	279.	c	284.	252.
7063	98.	139.	168.	212.	223.	228.	244.	250.	252.	239.	252.	237.	235.
7064	109.	165.	213.	233.	254.	275.	264.	263.	257.	246.	241.	240.	232.
7065	109.	168.	216.	233.	268.	260.	268.	280.	265.	262.	263.	266.	257.
7066	105.	157.	191.	215.	232.	235.	245.	257.	232.	232.	234.	235.	233.
7067	96.	141.	184.	207.	231.	240.	246.	250.	235.	243.	223.	229.	233.
7068	85.	133.	175.	177.	199.	232.	224.	221.	206.	222.	218.	206.	208.
7069	82.	111.	137.	159.	183.	192.	195.	197.	200.	207.	203.	208.	200.
7070	117.	175.	204.	231.	256.	227.	213.	240.	238.	210.	194.	198.	192.
7071	91.	130.	165.	184.	202.	217.	215.	214.	222.	211.	212.	220.	224.
7072	81.	149.	166.	190.	205.	200.	197.	197.	194.	175.	188.	203.	176.
7073	100.	153.	189.	216.	242.	245.	250.	239.	229.	195.	214.	215.	200.
7074	94.	137.	169.	190.	204.	214.	208.	200.	205.	186.	194.	194.	185.
7075	90.	131.	169.	197.	211.	226.	217.	229.	206.	197.	208.	209.	196.
7076	90.	128.	165.	196.	206.	224.	217.	220.	213.	203.	212.	211.	197.
7077	94.	121.	164.	187.	211.	224.	225.	228.	223.	216.	228.	215.	198.
7078	92.	126.	175.	207.	219.	227.	221.	c	210.	206.	208.	149.	222.
7079	89.	130.	180.	215.	231.	271.	284.	c	230.	c	228.	218.	218.
7080	94.	131.	183.	218.	243.	263.	c	c	290.	283.	269.	268.	284.
7081	105.	147.	192.	219.	229.	246.	228.	232.	229.	200.	216.	201.	193.
7082	103.	145.	193.	227.	228.	230.	230.	237.	218.	232.	219.	225.	203.
7083	83.	128.	167.	186.	c	c	226.	225.	204.	197.	211.	201.	247.
7084	92.	138.	185.	218.	235.	268.	251.	264.	241.	228.	238.	208.	248.
7085	109.	144.	185.	228.	253.	c	272.	280.	263.	252.	222.	240.	434.d
7086	125.	165.	195.	224.	242.	243.	248.	251.	233.	223.	227.	253.	424.d
7087	117.	161.	196.	229.	255.	246.	220.	244.	246.	224.	236.	242.	447.d
7088	100.	136.	182.	212.	238.	232.	239.	243.	236.	215.	204.	208.	386.d
7089	105.	153.	174.	219.	224.	252.	247.	256.	237.	231.	236.	237.	c
7090	128.	166.	203.	235.	250.	255.	254.	271.	251.	245.	260.	249.	c

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a feed consumption value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.
d. Value was incorrectly recorded and was excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 6): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS 127-134		
RAT #	DOSAGE GROUP 3	3.0 MG/KG/DAY
7061	177.	
7062	261.	
7063	207.	
7064	230.	
7065	258.	
7066	224.	
7067	240.	
7068	203.	
7069	209.	
7070	205.	
7071	224.	
7072	189.	
7073	195.	
7074	194.	
7075	195.	
7076	200.	
7077	209.	
7078	225.	
7079	231.	
7080	254.	
7081	194.	
7082	206.	
7083	196.	
7084	225.	
7085	249.	
7086	229.	
7087	223.	
7088	195.	
7089	224.	
7090	246.	

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 7): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS	1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a	99b-106	106 -113	113 -120	120 -127
RAT #	DOSAGE GROUP 4						30.0 MG/KG/DAY						
7091	82.	126.	155.	174.	199.	218.	216.	208.	202.	187.	201.	191.	179.
7092	99.	143.	178.	191.	208.	215.	216.	220.	210.	195.	232.	215.	204.
7093	89.	129.	165.	184.	204.	212.	209.	204.	192.	186.	188.	188.	185.
7094	83.	119.	156.	166.	182.	197.	206.	209.	206.	198.	192.	192.	189.
7095	99.	137.	178.	201.	216.	214.	220.	225.	210.	214.	200.	170.	177.
7096	89.	138.	175.	206.	220.	225.	233.	c	240.	223.	238.	235.	246.
7097	93.	141.	174.	186.	200.	205.	205.	209.	188.	188.	193.	188.	180.
7098	91.	148.	191.	223.	249.	254.	248.	c	221.	238.	232.	225.	225.
7099	80.	127.	155.	176.	195.	217.	212.	210.	206.	192.	192.	185.	186.
7100	88.	135.	173.	212.	238.	243.	249.	243.	227.	221.	215.	214.	200.
7101	88.	135.	176.	198.	217.	218.	226.	210.	204.	208.	206.	197.	188.
7102	91.	135.	168.	194.	201.	209.	201.	204.	198.	195.	c	202.	189.
7103	98.	151.	181.	217.	230.	237.	242.	236.	239.	216.	220.	231.	203.
7104	102.	138.	179.	204.	223.	219.	223.	208.	214.	c	221.	209.	194.
7105	104.	150.	191.	224.	224.	227.	243.	213.	218.	213.	228.	227.	207.
7106	94.	153.	195.	231.	260.	c	c	261.	247.	262.	265.	261.	241.
7107	85.	148.	168.	182.	201.	210.	217.	217.	208.	221.	198.	216.	212.
7108	84.	207.	197.	228.	244.	246.	243.	234.	228.	215.	219.	220.	201.
7109	85.	140.	178.	211.	228.	c	c	252.	259.	260.	246.	238.	220.
7110	94.	138.	189.	211.	233.	243.	248.	245.	239.	228.	226.	251.	217.
7111	72.	137.	164.	191.	210.	217.	212.	206.	223.	182.	186.	185.	179.
7112	83.	130.	177.	219.	236.	240.	c	226.	224.	185.	201.	204.	206.
7113	108.	151.	192.	218.	237.	238.	231.	228.	218.	FOUND DEAD ON DAY 95 POSTWEANING			
7114	94.	145.	185.	219.	228.	251.	236.	240.	211.	179.	199.	196.	189.
7115	119.	164.	219.	257.	266.	266.	273.	268.	258.	FOUND DEAD ON DAY 82 POSTWEANING			
7116	109.	164.	190.	223.	240.	247.	228.	237.	235.	228.	222.	219.	258.
7117	124.	164.	199.	226.	247.	237.	235.	237.	232.	218.	226.	222.	223.
7118	100.	176.	211.	244.	241.	252.	248.	251.	237.	224.	226.	215.	230.
7119	108.	169.	218.	245.	261.	254.	238.	268.	257.	226.	221.	214.	225.
7120	96.	132.	170.	209.	228.	254.	252.	255.	256.	220.	224.	204.	212.

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Day 99 postweaning was the first day on which the youngest rats (in this group) had a feed consumption value recorded after cohabitation.
c. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D20 (PAGE 8): FEED CONSUMPTION VALUES - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DAYS 127-134		
RAT #	DOSAGE GROUP 4	30.0 MG/KG/DAY
7091	185.	
7092	198.	
7093	179.	
7094	196.	
7095	221.	
7096	234.	
7097	184.	
7098	228.	
7099	181.	
7100	211.	
7101	189.	
7102	186.	
7103	209.	
7104	199.	
7105	205.	
7106	250.	
7107	215.	
7108	212.	
7109	222.	
7110	218.	
7111	FOUND DEAD ON DAY 131 POSTWEANING	
7112	206.	
7113	FOUND DEAD ON DAY 95 POSTWEANING	
7114	197.	
7115	FOUND DEAD ON DAY 82 POSTWEANING	
7116	211.	
7117	217.	
7118	218.	
7119	218.	
7120		

DAYS = DAYS POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D21 (PAGE 1): SEXUAL MATURATION - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP	1		2		3		4	
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)		0.3		3.0		30.0	
	RAT #	PREPUTIAL SEPARATION (DAY)	RAT #	PREPUTIAL SEPARATION (DAY)	RAT #	PREPUTIAL SEPARATION (DAY)	RAT #	PREPUTIAL SEPARATION (DAY)
	7001	46	7031	43	7061	47	7091	47
	7002	45	7032	45	7062	45	7092	47
	7003	47	7033	48	7063	46	7093	50
	7004	52	7034	45	7064	46	7094	46
	7005	47	7035	41	7065	45	7095	45
	7006	49	7036	49	7066	44	7096	46
	7007	47	7037	45	7067	46	7097	47
	7008	46	7038	46	7068	46	7098	48
	7009	49	7039	47	7069	49	7099	47
	7010	46	7040	48	7070	47	7100	46
	7011	51	7041	46	7071	48	7101	47
	7012	48	7042	45	7072	45	7102	48
	7013	45	7043	43	7073	51	7103	45
	5450	47	7044	43	7074	45	7104	44
	7015	47	7045	45	7075	44	7105	42
	7016	45	7046	46	7076	47	7106	47
	7017	45	7047	46	7077	47	7107	45
	7018	51	7048	44	7078	46	7108	46
	7019	46	7049	44	7079	49	7109	44
	7020	46	7050	44	7080	44	7110	45
	7021	45	7051	47	7081	43	7111	46
	7022	46	7052	46	7082	42	7112	45
	7023	41	7053	45	7083	47	7113	44
	7024	40	7054	45	7084	45	7114	43
	7025	43	7055	46	7085	46	7115	46
	7026	44	7056	44	7086	40	7116	46
	7027	41	7057	50	7087	41	7117	46
	7028	43	7058	47	7088	43	7118	40
	7029	47	7059	44	7089	43	7119	44
	7030	48	7060	45	7090	44	7120	47

DAY = DAY POSTPARTUM

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D22 (PAGE 1): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 1 — 0 (CARRIER) MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
7001	1	M	C	P(7202)
7002	3	M	C	P(7227)
7003	1	M	C	P(7225)
7004	3	M	C	NP(7201)
7005	3	M	C	P(7213)
7006	1	M	C	P(7204)
7007	2	M	C	NP(7222)
7008	1	M	C	NP(7221)
7009	1	M	C	P(7226)
7010	5	M	C	NP(7207)
7011	2	M	C	NP(7209)
7012	3	M	C	P(7205)
7013	4	M	C	P(7228)
5450	1	M	C	P(7212)
7015	3	M	C	P(7229)
7016	4	M	C	NP(7203)
7017	2	M	C	P(7218)
7018	1	M	C	P(7216)
7019	14	DID NOT MATE	-	-(7230)
7020	9	M	C	P(7208)
7021	3	M	C	P(7210)
7022	3	M	C	P(7224)
7023	4	M	C	NP(7206)
7024	1	M	C	P(7223)
7025	5	M	C	P(7215)
7026	1	M	C	P(7217)
7027	2	M	C	NP(7220)
7028	1	M	C	P(7219)
7029	1	M	C	P(7214)
7030	1	M	C	P(7211)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D22 (PAGE 2): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
7031	1	M	C	P(7249)
7032	2	M	C	P(7248)
7033	2	M	C	P(7257)
7034	2	M	C	P(7235)
7035	3	M	C	P(7245)
7036	14	DID NOT MATE	-	-(7243)
7037	4	M	C	P(7252)
7038	3	M	C	P(7251)
7039	7	M	C	P(7255)
7040	2	M	C	P(7247)
7041	6	M	C	P(7231)
7042a				
7043	1	M	C	P(7254)
7044	4	M	C	P(7258)
7045	3	M	C	P(7244)
7046	3	M	C	P(7256)
7047	1	M	C	P(7240)
7048	3	M	C	P(7250)
7049	3	M	C	P(7236)
7050	1	M	C	P(7237)
7051	2	M	C	P(7234)
7052	4	M	C	P(7233)
7053	1	M	C	P(7246)
7054	4	M	C	P(7242)
7055	6	M	C	P(7232)
7056	2	M	C	P(7241)
7057	3	M	C	P(7239)
7058	4	M	C	P(7259)
7059	2	M	C	NP(7260)
7060	1	M	C	P(7238)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT
a. Rat 7042 was not assigned to cohabitation because there were no available female rats.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D22 (PAGE 3): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 3 — 3.0 MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
7061	3	M	C	NP(7290)
7062	2	M	C	P(7278)
7063	2	M	C	P(7276)
7064	3	M	C	P(7270)
7065	6	M	C	P(7281)
7066	3	M	C	P(7274)
7067	2	M	C	P(7285)
7068	3	M	C	P(7271)
7069	4	M	C	P(7264)
7070	1	M	C	NP(7261)
7071	1	M	C	P(7279)
7072	1	M	C	P(7275)
7073	7	M	C	P(7263)
7074	5	M	C	P(7273)
7075	1	M	C	P(7268)
7076	2	M	C	P(7265)
7077	4	M	C	P(7286)
7078	3	M	C	P(7288)
7079	3	M	C	P(7289)
7080	4	M	C	P(7262)
7081	6	M	C	P(7280)
7082	2	M	C	P(7267)
7083	1	M	C	P(7266)
7084	2	M	C	P(7287)
7085	1	M	C	P(7277)
7086	4	M	C	P(7272)
7087	2	M	C	P(7284)
7088	3	M	C	P(7283)
7089	2	M	C	P(7269)
7090	3	M	C	P(7282)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D22 (PAGE 4): MATING AND FERTILITY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 4 — 30.0 MG/KG/DAY

RAT #	DAYS IN COHABITATION	MATING STATUS	MATING DATE	FEMALE PREGNANCY STATUS
7091	4	M	C	P(7297)
7092	4	M	C	P(7309)
7093	2	M	C	P(7310)
7094	1	M	C	P(7295)
7095	2	M	C	P(7300)
7096	1	M	C	P(7314)
7097	3	M	C	P(7304)
7098	2	M	C	P(7318)
7099	2	M	C	P(7299)
7100	3	M	C	P(7316)
7101	2	M	C	P(7296)
7102	3	M	C	P(7312)
7103	3	M	C	P(7292)
7104	1	M	C	P(7291)
7105	2	M	C	P(7298)
7106a	2	M	C	P(7311)
7106b	6	M	C	NP(7307)
7107	4	M	C	P(7308)
7108	3	M	C	P(7302)
7109	4	M	C	P(7294)
7110	3	M	C	P(7303)
7111	1	M	C	P(7313)
7112	1	M	C	P(7315)
7113	1	M	C	P(7293)
7114	2	M	C	P(7317)
7115c				
7116	2	M	C	NP(7319)
7117	1	M	C	P(7320)
7118	4	M	C	P(7306)
7119	6	M	C	P(7301)
7120	2	M	C	NP(7305)

M = MATED ( ) = FEMALE RAT NUMBER
C = CONFIRMED NC = NOT CONFIRMED
P = PREGNANT NP = NOT PREGNANT
a. Result of first cohabitation period.
b. Male rat mated early in the first cohabitation period and was cohabited with a second female rat.
c. Rat 7115 was found dead on day 82 postweaning (day 2 of cohabitation).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D23 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
1				
0 (CARRIER)	7001	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7002	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7003	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7004	DP 139	139	TESTES: SMALL AND FLACCID. EPIDIDYMIDES: SMALL AND FLACCID. ALL OTHER TISSUES APPEARED NORMAL.
	7005	DP 139	139	KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL.
	7006	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7007	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7008	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7009	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7010	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7011	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7012	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7013	DP 139	139	ALL TISSUES APPEARED NORMAL.
	5450	DP 130	130	ALL TISSUES APPEARED NORMAL.
	7015	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7016	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7017	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7018	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7019	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7020	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7021	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7022	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7023	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7024	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7025	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7026	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7027	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7028	DP 135	135	ALL TISSUES APPEARED NORMAL.
	7029	DP 130	130	ALL TISSUES APPEARED NORMAL.
	7030	DP 130	130	ALL TISSUES APPEARED NORMAL.

DP = DAY POSTWEANING
a. Refer to the individual clinical observations table (Table D17) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D23 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
2				
0.3	7031	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7032	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7033	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7034	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7035	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7036	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7037	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7038	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7039	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7040	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7041	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7042	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7043	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7044	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7045	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7046	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7047	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7048	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7049	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7050	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7051	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7052	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7053	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7054	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7055	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7056	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7057	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7058	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7059	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7060	DP 130	130	ALL TISSUES APPEARED NORMAL.

DP = DAY POSTWEANING
a. Refer to the individual clinical observations table (Table D17) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D23 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
3				
3.0	7061	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7062	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7063	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7064	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7065	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7066	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7067	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7068	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7069	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7070	DP 139	139	TESTES: SMALL AND FLACCID. EPIDIDYMIDES: SMALL AND FLACCID. PROSTATE: MASS (0.7 CM X 1.6 CM), CENTER OF MASS DARK TAN. ALL OTHER TISSUES APPEARED NORMAL.
	7071	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7072	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7073	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7074	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7075	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7076	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7077	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7078	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7079	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7080	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7081	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7082	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7083	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7084	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7085	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7086	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7087	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7088	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7089	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7090	DP 139	139	ALL TISSUES APPEARED NORMAL.

DP = DAY POSTWEANING

a. Refer to the individual clinical observations table (Table D17) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D23 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
4				
30.0	7091	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7092	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7093	DP 139	139	RIGHT EYE: LENTICULAR OPACITY.b ALL OTHER TISSUES APPEARED NORMAL.
	7094	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7095	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7096	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7097	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7098	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7099	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7100	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7101	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7102	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7103	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7104	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7105	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7106	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7107	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7108	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7109	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7110	DP 140	140	ALL TISSUES APPEARED NORMAL.
	7111	DP 131	131	FOUND DEAD ON DAY 131 POSTWEANING. ALL TISSUES APPEARED NORMAL.
	7112	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7113	DP 95	95	FOUND DEAD ON DAY 95 POSTWEANING. ALL TISSUES APPEARED NORMAL.
	7114	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7115	DP 82	82	FOUND DEAD ON DAY 82 POSTWEANING. ALL TISSUES APPEARED NORMAL.

DP = DAY POSTWEANING
a. Refer to the individual clinical observations table (Table D17) for external observations confirmed at necropsy.
b. Confirms a clinical observation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D23 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
4 (Cont.)				
30.0	7116	DP 138	138	ALL TISSUES APPEARED NORMAL.
	7117	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7118	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7119	DP 139	139	ALL TISSUES APPEARED NORMAL.
	7120	DP 130	130	KIDNEYS: RIGHT, PELVIS, SLIGHT DILATION. ALL OTHER TISSUES APPEARED NORMAL.

DP = DAY POSTWEANING
a. Refer to the individual clinical observations table (Table D17) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
7001	606.	0.7344	0.12	0.3371	0.06	1.7184	0.28	1.6208	0.27	1.8364	0.30	0.7407	0.12
7002	535.	0.7206	0.13	0.3355	0.06	1.6727	0.31	1.5252	0.28	1.9561	0.36	0.7322	0.14
7003	605.	0.8051	0.13	0.3933	0.06	1.8284	0.30	1.6660	0.28	1.8298	0.30	0.6912	0.11
7004	637.	0.3554a	0.06a	0.1396a	0.02a	0.4605a	0.07a	0.3308a	0.05a	1.3810	0.22	0.5657	0.09
7005	573.	0.7931	0.14	0.3982	0.07	1.8758	0.33	1.6272	0.28	1.4359	0.25	0.5156	0.09
7006	548.	0.6881	0.12	0.2974	0.05	1.6880	0.31	1.4965	0.27	1.4162	0.26	0.6741	0.12
7007	728.	0.7768	0.11	0.3244	0.04	2.0561	0.28	1.7770	0.24	1.8420	0.25	0.7287	0.10
7008	660.	0.8379	0.13	0.4080	0.06	1.7629	0.27	1.6066	0.24	1.7537	0.26	0.6649	0.10
7009	586.	0.6865	0.12	0.2853	0.05	1.8480	0.32	1.6916	0.29	1.9394	0.33	0.7607	0.13
7010	613.	0.7851	0.13	0.3603	0.06	1.8799	0.31	1.7219	0.28	2.0373	0.33	0.9475	0.15
7011	525.	0.7923	0.15	0.3426	0.06	1.6810	0.32	1.5572	0.30	1.9604	0.37	1.0325	0.20
7012	599.	0.6250	0.10	0.2904	0.05	2.0068	0.34	1.8368	0.31	1.9883	0.33	0.7423	0.12
7013	644.	0.8108	0.12	0.3728	0.06	1.9344	0.30	1.8400	0.28	1.7155	0.27	0.7295	0.11
5450	572.	0.7022	0.12	0.3409	0.06	1.7792	0.31	1.6300	0.28	1.9424	0.34	0.6730	0.12
7015	599.	0.6986	0.12	0.3446	0.06	1.7309	0.29	1.5768	0.26	1.7696	0.30	0.7725	0.13
7016	494.	0.7439	0.15	0.3456	0.07	1.7022	0.34	1.5803	0.32	1.0833	0.22	0.6005	0.12
7017	614.	0.8208	0.13	0.3756	0.06	1.7849	0.29	1.5795	0.26	2.2588	0.37	0.9501	0.15
7018	530.	0.7557	0.14	0.3634	0.07	1.7139	0.32	1.5564	0.29	1.9575	0.37	0.7020	0.13
7019	693.	0.6835	0.10	0.3031	0.04	1.6461	0.24	1.3584	0.20	1.6601	0.24	0.6800	0.10
7020	814.	0.8069	0.10	0.4032	0.05	2.1118	0.26	1.9199	0.24	1.6443	0.20	0.7388	0.09
7021	723.	0.8471	0.12	0.4296	0.06	1.7603	0.24	1.6593	0.23	1.7756	0.24	0.7228	0.10
7022	634.	0.7747	0.12	0.3708	0.06	1.7688	0.28	1.5981	0.25	1.7434	0.27	0.6557	0.10
7023	743.	0.7556	0.10	0.3728	0.05	2.0236	0.27	1.8742	0.25	1.8103	0.24	0.7054	0.09
7024	709.	0.9451	0.13	0.3966	0.06	2.3732	0.33	2.1759	0.31	1.4813	0.21	0.6746	0.10
7025	566.	0.8463	0.15	0.3306	0.06	1.7930	0.32	1.5512	0.27	1.8449	0.32	0.8007	0.14
7026	547.	0.7128	0.13	0.3534	0.06	1.8085	0.33	1.6726	0.30	1.9908	0.36	0.7375	0.13
7027	643.	0.7830	0.12	0.3784	0.06	1.9606	0.30	1.7871	0.28	1.8405	0.29	0.5908	0.09
7028	664.	0.7823	0.12	0.3624	0.05	2.0011	0.30	1.8193	0.27	1.9382	0.29	0.7229	0.11
7029	612.	0.6664	0.11	0.3122	0.05	1.6762	0.27	1.4890	0.24	1.4236	0.23	0.5164	0.08
7030	501.	0.7083	0.14	0.3236	0.06	2.0320	0.40	1.8206	0.36	1.5885	0.32	0.6349	0.13

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Rat 7004 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % TBW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % TBW	PROSTATE ABS. WT.	PROSTATE REL. % TBW	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
7001	606.	0.7639	0.13	1.7920	0.30	0.8287	0.14	0.015	2.48	2.37	0.39	24.81	4.09
7002	535.	0.7060	0.13	1.6810	0.31	1.2280	0.23	0.014	2.62	2.29	0.43	21.97	4.11
7003	605.	0.8248	0.14	1.7695	0.29	1.1559	0.19	0.015	2.48	2.46	0.41	22.59	3.73
7004	637.	0.3915b	0.06b	0.4425b	0.07b	0.8892	0.14	0.014	2.20	2.44	0.38	25.14	3.95
7005	573.	0.7684	0.13	1.8615	0.32	1.2122	0.21	0.014	2.44	2.46	0.43	21.22	3.70
7006	548.	0.7176	0.13	1.7135	0.31	0.7907	0.14	0.008	1.46	2.18	0.40	20.21	3.69
7007	728.	0.7598	0.10	2.1830	0.30	1.3134	0.18	0.020	2.75	2.51	0.34	34.23	4.70
7008	660.	0.8602	0.13	1.7994	0.27	1.0883	0.16	0.015	2.27	2.41	0.36	26.22	3.97
7009	586.	0.7175	0.12	1.7700	0.30	0.9164	0.16	0.011	1.88	2.33	0.40	22.81	3.89
7010	613.	0.7688	0.12	1.9465	0.32	1.0358	0.17	0.015	2.45	2.35	0.38	24.58	4.01
7011	525.	0.7914	0.15	1.7910	0.34	1.0580	0.20	0.015	2.86	2.49	0.47	18.06	3.44
7012	599.	0.7077	0.12	1.9462	0.32	0.8890	0.15	0.016	2.67	2.31	0.38	22.59	3.77
7013	644.	0.8374	0.13	2.0497	0.32	1.3315	0.21	0.014	2.17	2.39	0.37	27.42	4.26
5450	572.	0.7284	0.13	1.7147	0.30	0.9735	0.17	0.013	2.27	2.41	0.42	25.43	4.44
7015	599.	0.7208	0.12	1.7135	0.29	1.3647	0.23	0.014	2.34	2.29	0.38	25.90	4.32
7016	494.	0.7325	0.15	1.8000	0.36	0.9869	0.20	0.012	2.43	2.39	0.48	18.98	3.84
7017	614.	0.8216	0.13	1.7156	0.28	1.2883	0.21	0.015	2.44	2.28	0.37	24.53	4.00
7018	530.	0.7764	0.15	1.7607	0.33	1.2130	0.23	0.014	2.64	2.18	0.41	17.44	3.29
7019	693.	0.6953	0.10	1.6262	0.23	1.0637	0.15	0.014	2.02	2.36	0.34	26.14	3.77
7020	814.	0.7916	0.10	2.0044	0.25	1.5601	0.19	0.014	1.72	2.40	0.29	33.52	4.12
7021	723.	0.7605	0.10	1.6950	0.23	1.4003	0.19	0.015	2.07	2.36	0.33	25.73	3.56
7022	634.	0.7311	0.12	1.7970	0.28	1.2221	0.19	0.014	2.21	2.21	0.35	25.43	4.01
7023	743.	0.8140	0.11	2.0455	0.28	1.2386	0.17	0.020	2.69	2.41	0.32	27.21	3.66
7024	709.	0.8139	0.11	2.2328	0.31	1.0888	0.15	0.015	2.12	2.46	0.35	32.16	4.54
7025	566.	0.8555	0.15	1.8225	0.32	1.2524	0.22	0.009	1.59	2.41	0.42	25.20	4.45
7026	547.	0.7514	0.14	1.8142	0.33	1.1506	0.21	0.012	2.19	2.54	0.46	22.58	4.13
7027	643.	0.7745	0.12	2.0161	0.31	1.5552	0.24	0.013	2.02	2.48	0.38	28.40	4.42
7028	664.	0.7826	0.12	1.9094	0.29	1.3305	0.20	0.016	2.41	2.50	0.38	27.10	4.08
7029	612.	0.7115	0.12	1.7043	0.28	1.1105	0.18	0.013	2.12	2.30	0.38	23.45	3.83
7030	501.	0.7554	0.15	2.0849	0.42	1.2738	0.25	0.010	2.00	2.49	0.50	20.52	4.10

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Rat 7004 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY					
7001	606.	5.02	0.83	0.060	0.01	1.07	0.18	0.039	6.44	1.76	0.29
7002	535.	4.76	0.89	0.055	0.01	0.90	0.17	0.035	6.54	1.96	0.37
7003	605.	4.75	0.78	0.074	0.01	1.07	0.18	0.041	6.78	1.85	0.30
7004	637.	4.70	0.74	0.067	0.01	1.32	0.21	0.043	6.75	1.94	0.30
7005	573.	5.01	0.87	0.064	0.01	0.93	0.16	0.038	6.63	1.87	0.33
7006	548.	4.10	0.75	0.067	0.01	0.97	0.18	0.032	5.84	2.09	0.38
7007	728.	5.94	0.82	0.074	0.01	1.35	0.18	0.036b	4.94	2.22	0.30
7008	660.	5.20	0.79	0.067	0.01	1.16	0.18	0.033	5.00	2.14	0.32
7009	586.	3.98	0.68	0.052	0.01	0.80	0.14	0.037	6.31	1.39	0.24
7010	613.	4.54	0.74	0.055	0.01	0.93	0.15	0.031	5.06	1.85	0.30
7011	525.	4.09	0.78	0.056	0.01	0.90	0.17	0.037	7.05	2.01	0.38
7012	599.	4.50	0.75	0.069	0.01	0.93	0.16	0.036	6.01	1.92	0.32
7013	644.	4.93	0.76	0.073	0.01	1.23	0.19	0.036	5.59	2.04	0.32
5450	572.	4.91	0.86	0.068	0.01	0.88	0.15	0.037	6.47	1.88	0.33
7015	599.	5.26	0.88	0.077	0.01	0.92	0.15	0.034	5.68	1.76	0.29
7016	494.	3.88	0.78	0.048	0.01	0.92	0.19	0.030	6.07	1.50	0.30
7017	614.	5.02	0.82	0.059	0.01	0.98	0.16	0.028b	4.56	1.82	0.30
7018	530.	4.12	0.78	0.079	0.01	0.90	0.17	0.032b	6.04	1.61	0.30
7019	693.	5.02	0.72	0.070	0.01	1.07	0.15	0.046	6.64	1.73	0.25
7020	814.	5.82	0.71	0.089	0.01	1.15	0.14	0.048	5.90	2.31	0.28
7021	723.	4.82	0.67	0.076	0.01	0.93	0.13	0.027b	3.73	1.99	0.28
7022	634.	4.33	0.68	0.067	0.01	0.96	0.15	0.035	5.52	2.35	0.37
7023	743.	5.36	0.72	0.076	0.01	0.97	0.13	0.036	4.84	1.95	0.26
7024	709.	5.73	0.81	0.085	0.01	1.44	0.20	0.038	5.36	2.08	0.29
7025	566.	4.57	0.81	0.065	0.01	1.00	0.18	0.033	5.83	1.91	0.34
7026	547.	4.73	0.86	0.065	0.01	1.02	0.19	0.041	7.50	1.74	0.32
7027	643.	6.00	0.93	0.086	0.01	1.06	0.16	0.039b	6.06	1.86	0.29
7028	664.	5.35	0.80	0.080	0.01	1.01	0.15	0.042	6.32	2.08	0.31
7029	612.	4.92	0.80	0.088	0.01	0.86	0.14	0.044	7.19	1.88	0.31
7030	501.	3.80	0.76	0.064	0.01	0.80	0.16	0.027	5.39	1.79	0.36

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
7031	647.	0.7673	0.12	0.3603	0.06	2.0319	0.31	1.9027	0.29	2.0343	0.31	0.7550	0.12
7032	534.	0.8723	0.16	0.3984	0.07	2.1934	0.41	1.9916	0.37	2.1943	0.41	0.7593	0.14
7033	629.	0.7196	0.11	0.3688	0.06	1.8943	0.30	1.6617	0.26	1.8428a	0.29a	0.8772	0.14
7034	663.	0.7733	0.12	0.3742	0.06	1.9520	0.29	1.8154	0.27	2.3458	0.35	0.9327	0.14
7035	620.	0.8439	0.14	0.4100	0.07	2.1773	0.35	1.9346	0.31	1.3842a	0.22a	0.6906	0.11
7036	656.	0.8192	0.12	0.3579	0.05	2.0591	0.31	1.8902	0.29	2.3943	0.36	1.0156	0.15
7037	686.	0.8344	0.12	0.3837	0.06	1.9877	0.29	1.8546	0.27	2.2047	0.32	0.9819	0.14
7038	710.	0.7418	0.10	0.3364	0.05	1.8375	0.26	1.6891	0.24	1.9349	0.27	0.9305	0.13
7039	653.	0.8192	0.12	0.3772	0.06	1.7169	0.26	1.5728	0.24	1.7601	0.27	0.6416	0.10
7040	690.	0.7482	0.11	0.3293	0.05	2.0171	0.29	1.8741	0.27	1.7171	0.25	0.6431	0.09
7041	703.	0.7374	0.10	0.3422	0.05	1.8554	0.26	1.6428	0.23	1.7185	0.24	0.7003	0.10
7042	592.	0.7001	0.12	0.3359	0.06	1.5838	0.27	1.4330	0.24	1.6261	0.27	0.7943	0.13
7043	738.	0.8094	0.11	0.3654	0.05	2.1546	0.29	1.9532	0.26	1.5898	0.22	0.6653	0.09
7044	612.	0.8020	0.13	0.4293	0.07	1.8975	0.31	1.6454	0.27	1.6364	0.27	0.6340	0.10
7045	760.	0.7406	0.10	0.3864	0.05	1.8460	0.24	1.6807	0.22	1.5914	0.21	0.7117	0.09
7046	683.	0.7700	0.11	0.3721	0.05	2.0341	0.30	1.8029	0.26	2.3371	0.34	0.8931	0.13
7047	621.	0.8950	0.14	0.4172	0.07	2.0867	0.34	1.8899	0.30	2.0289	0.33	0.7309	0.12
7048	728.	0.6892	0.09	0.2876	0.04	1.7028	0.23	1.5588	0.21	1.8402	0.25	0.6699	0.09
7049	691.	0.6444	0.09	0.2999	0.04	1.5205	0.22	1.4140	0.20	1.6090	0.23	0.6182	0.09
7050	740.	0.8858	0.12	0.4581	0.06	1.9993	0.27	1.8653	0.25	1.5040	0.20	0.6353	0.08
7051	621.	0.7082	0.11	0.3350	0.05	1.9092	0.31	1.6896	0.27	1.6203	0.26	0.6621	0.11
7052	594.	0.8878	0.15	0.3892	0.06	1.9483	0.33	1.7522	0.29	2.2653	0.38	0.7249	0.12
7053	646.	0.8505	0.13	0.4294	0.07	1.9598	0.30	1.7116	0.26	2.0078	0.31	0.9198	0.14
7054	810.	0.8917	0.11	0.3929	0.05	2.2873	0.28	2.0077	0.25	1.7958	0.22	0.8650	0.11
7055	693.	0.7014	0.10	0.3102	0.04	1.8594	0.27	1.7218	0.25	1.6993	0.24	0.7174	0.10
7056	641.	0.7311	0.11	0.3379	0.05	1.8213	0.28	1.4820	0.23	1.3062	0.20	0.5875	0.09
7057	620.	0.8700	0.14	0.3866	0.06	1.8997	0.31	1.7444	0.28	1.6197	0.26	0.6515	0.10
7058	678.	0.8396	0.12	0.3882	0.06	2.0994	0.31	1.9652	0.29	1.9703	0.29	0.6591	0.10
7059	592.	0.8176	0.14	0.3827	0.06	2.0602	0.35	1.8724	0.32	1.6186	0.27	0.8370	0.14
7060	687.	0.7880	0.11	0.3634	0.05	1.9887	0.29	1.8381	0.27	1.2065	0.18	0.5508	0.08

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % TBW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % TBW	PROSTATE ABS. WT.	PROSTATE REL. % TBW	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
7031	647.	0.8109	0.12	2.0366	0.31	1.0822	0.17	0.016	2.47	2.32	0.36	31.34	4.84
7032	534.	0.8365	0.16	2.1999	0.41	0.9615	0.18	0.013	2.43	2.41	0.45	27.43	5.14
7033	629.	0.7759	0.12	1.9632	0.31	1.1095	0.18	0.017	2.70	2.63	0.42	26.91	4.28
7034	663.	0.8770	0.13	1.9748	0.30	1.4001	0.21	0.014	2.11	2.52	0.38	28.05	4.23
7035	620.	0.8611	0.14	2.1839	0.35	1.1494	0.18	0.014	2.26	2.37	0.38	27.54	4.44
7036	656.	0.8922	0.14	2.0900	0.32	1.0612	0.16	0.015	2.29	2.55	0.39	23.74	3.62
7037	686.	0.8122	0.12	2.0055	0.29	1.1497	0.17	0.014	2.04	2.46	0.36	31.01	4.52
7038	710.	0.7875	0.11	1.8770	0.26	0.9255	0.13	0.016	2.25	2.50	0.35	30.30	4.27
7039	653.	0.8263	0.13	1.7196	0.26	0.8086	0.12	0.012	1.84	2.37	0.36	33.05	5.06
7040	690.	0.7355	0.11	2.0295	0.29	0.7597	0.11	0.016	2.32	2.55	0.37	29.03	4.21
7041	703.	0.7170	0.10	1.9675	0.28	0.6956	0.10	0.016	2.28	2.38	0.34	25.32	3.60
7042	592.	0.7428	0.12	1.6797	0.28	0.9368	0.16	0.020	3.38	2.30	0.39	25.23	4.26
7043	738.	0.8330	0.11	2.1826	0.30	1.1907	0.16	0.014	1.90	2.49	0.34	26.26	3.56
7044	612.	0.7410	0.12	1.9331	0.32	1.5361	0.25	0.014	2.29	2.57	0.42	24.16	3.95
7045	760.	0.7706	0.10	1.8663	0.24	1.5565	0.20	0.027	3.55	2.48	0.33	30.08	3.96
7046	683.	0.8222	0.12	2.0567	0.30	1.2360	0.18	0.016	2.34	2.44	0.36	24.77	3.63
7047	621.	0.9154	0.15	2.0959	0.34	1.0187	0.16	0.017	2.74	2.52	0.40	25.45	4.10
7048	728.	0.7198	0.10	1.6715	0.23	1.6893	0.23	0.016	2.20	2.23	0.31	30.49	4.19
7049	691.	0.6934	0.10	1.5382	0.22	1.3446	0.19	0.015	2.17	2.33	0.34	28.38	4.11
7050	740.	0.8522	0.12	2.0106	0.27	1.3551	0.18	0.022	2.97	2.40	0.32	34.08	4.60
7051	621.	0.7734	0.12	1.9024	0.31	1.1028	0.18	0.015	2.42	2.23	0.36	22.93	3.69
7052	594.	0.7824	0.13	1.9022	0.32	1.1928	0.20	0.012	2.02	2.26	0.38	20.95	3.53
7053	646.	0.8385	0.13	1.9539	0.30	1.2695	0.20	0.015	2.32	2.42	0.37	24.42	3.78
7054	810.	0.8275	0.10	2.2504	0.28	1.4650	0.18	0.022	2.72	3.00	0.37	35.45	4.38
7055	693.	0.6803	0.10	1.8362	0.26	0.9608	0.14	0.016	2.31	2.63	0.38	28.52	4.12
7056	641.	0.7902	0.12	1.8040	0.28	1.1117	0.17	0.016	2.50	2.42	0.38	24.50	3.82
7057	620.	0.8241	0.13	1.9284	0.31	1.1082	0.18	0.014	2.26	2.23	0.36	21.67	3.50
7058	678.	0.8447	0.12	2.1281	0.31	1.0392	0.15	0.016	2.36	2.41	0.36	26.38	3.89
7059	592.	0.8342	0.14	2.0486	0.35	1.0272	0.17	0.018	3.04	2.35	0.40	25.37	4.28
7060	687.	0.8827	0.13	2.0740	0.30	0.8821	0.13	0.018	2.62	2.36	0.34	26.24	3.82

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY					
7031	647.	5.79	0.89	0.060	0.01	1.49	0.23	0.034	5.26	1.95	0.30
7032	534.	5.34	1.00	0.068	0.01	1.11	0.21	0.026	4.87	1.93	0.36
7033	629.	5.86	0.93	0.067	0.01	0.98	0.16	0.026	4.13	1.78	0.28
7034	663.	5.79	0.87	0.052	0.01	0.95	0.14	0.048	7.24	2.05	0.31
7035	620.	5.67	0.91	0.058	0.01	0.96	0.15	0.041	6.61	1.96	0.32
7036	656.	4.83	0.74	0.068	0.01	1.22	0.18	0.035	5.34	2.01	0.31
7037	686.	4.82	0.70	0.063	0.01	1.17	0.17	0.045	6.56	2.01	0.29
7038	710.	5.64	0.79	0.086	0.01	1.07	0.15	0.039	5.49	1.95	0.27
7039	653.	5.01	0.77	0.074	0.01	1.05	0.16	0.044	6.74	1.94	0.30
7040	690.	5.16	0.75	0.063	0.01	1.30	0.19	0.047b	6.81	2.04	0.30
7041	703.	4.83	0.69	0.068	0.01	1.69	0.24	0.068	9.67	3.18	0.45
7042	592.	4.42	0.75	0.055	0.01	0.90	0.15	0.034	5.74	1.70	0.29
7043	738.	5.19	0.70	0.080	0.01	1.31	0.18	0.039	5.28	2.09	0.28
7044	612.	4.84	0.79	0.068	0.01	1.10	0.18	0.028	4.58	1.88	0.31
7045	760.	5.61	0.74	0.077	0.01	1.23	0.16	0.049	6.45	2.08	0.27
7046	683.	5.08	0.74	0.074	0.01	0.95	0.14	0.034	4.98	1.82	0.27
7047	621.	4.90	0.79	0.074	0.01	1.24	0.20	0.034	5.48	2.00	0.32
7048	728.	5.74	0.79	0.079	0.01	0.90	0.12	0.037	5.08	1.96	0.27
7049	691.	5.18	0.75	0.058	0.01	0.85	0.12	0.036	5.21	1.97	0.28
7050	740.	5.16	0.70	0.078	0.01	1.03	0.14	0.054	7.30	2.21	0.30
7051	621.	4.76	0.77	0.068	0.01	0.96	0.15	0.042	6.76	1.71	0.28
7052	594.	4.88	0.82	0.074	0.01	0.96	0.16	0.036	6.06	1.99	0.34
7053	646.	4.84	0.75	0.070	0.01	1.03	0.16	0.047	7.28	1.95	0.30
7054	810.	6.25	0.77	0.073	0.01	1.10	0.14	0.050	6.17	2.31	0.28
7055	693.	5.37	0.77	0.100	0.01	1.12	0.16	0.042	6.06	1.97	0.28
7056	641.	5.21	0.81	0.084	0.01	1.17	0.18	0.040	6.24	1.76	0.27
7057	620.	4.48	0.72	0.057	0.01	0.81	0.13	0.043	6.94	1.65	0.27
7058	678.	5.08	0.75	0.074	0.01	1.28	0.19	0.038b	5.60	2.37	0.35
7059	592.	5.17	0.87	0.080	0.01	0.46	0.08	0.038	6.42	1.93	0.33
7060	687.	5.89	0.86	0.089	0.01	1.14	0.16	0.049	7.13	2.13	0.31

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
7061	636.	0.7744	0.12	0.3809	0.06	1.9987	0.31	1.9100	0.30	1.6896	0.26	0.7474	0.12
7062	834.	0.7828	0.09	0.3293	0.04	2.0397	0.24	1.8051	0.22	1.6088	0.19	0.6998	0.08
7063	699.	0.7636	0.11	0.3341	0.05	1.7919	0.26	1.5833	0.23	1.7610	0.25	0.7098	0.10
7064	749.	0.7954	0.11	0.3288	0.04	1.9642	0.26	1.7549	0.23	1.9138	0.26	1.0318	0.14
7065	682.	0.9579	0.14	0.4713	0.07	2.2640	0.33	2.0753	0.30	1.8246	0.27	0.7850	0.12
7066	689.	0.7616	0.11	0.3948	0.06	1.6666	0.24	1.5385	0.22	2.2299	0.32	0.9957	0.14
7067	713.	0.7668	0.11	0.3622	0.05	1.9691	0.28	1.7889	0.25	1.4494	0.20	0.5965	0.08
7068	625.	0.7014	0.11	0.3070	0.05	1.7019	0.27	1.5500	0.25	1.3830	0.22	0.6398	0.10
7069	589.	0.7758	0.13	0.3677	0.06	1.8200	0.31	1.6637	0.28	1.4328	0.24	0.7037	0.12
7070	604.	0.4462a	0.07a	0.1867a	0.03a	0.9794a	0.16a	0.4813a	0.08a	1.2652	0.21	0.5855	0.10
7071	625.	0.7828	0.12	0.2834	0.04	1.8426	0.29	1.6666	0.27	2.3467	0.38	0.9587	0.15
7072	540.	0.8858	0.16	0.3715	0.07	2.0978	0.39	1.9205	0.36	2.2601	0.42	1.0206	0.19
7073	677.	0.7055	0.10	0.3338	0.05	1.8535	0.27	1.7078	0.25	1.5652	0.23	0.7812	0.12
7074	534.	0.7794	0.14	0.3666	0.07	2.0587	0.38	1.9206	0.36	2.0131	0.38	0.6861	0.13
7075	623.	0.8295	0.13	0.3698	0.06	2.0582	0.33	1.8928	0.30	1.7158	0.28	0.7213	0.12
7076	622.	0.9102	0.15	0.3438	0.06	2.0425	0.33	1.8588	0.30	1.1438	0.18	0.6830	0.11
7077	622.	0.8560	0.14	0.4253	0.07	1.9378	0.31	1.7579	0.28	2.4827	0.40	0.9426	0.15
7078	592.	0.7969	0.13	0.3519	0.06	2.1544	0.36	1.9972	0.34	1.9269	0.32	0.7759	0.13
7079	668.	0.6787	0.10	0.2895	0.04	1.6936	0.25	1.5348	0.23	2.1067	0.32	0.9102	0.14
7080	596.	0.8105	0.14	0.3492	0.06	1.9687	0.33	1.8228	0.30	2.0727	0.35	0.7490	0.12
7081	634.	0.8432	0.13	0.3881	0.06	1.8316	0.29	1.6717	0.26	1.4961	0.24	0.6437	0.10
7082	534.	0.7347	0.14	0.3703	0.07	1.7800	0.33	1.6340	0.30	1.7608	0.33	0.7415	0.14
7083	589.	0.7510	0.13	0.3469	0.06	1.7163	0.29	1.5162	0.26	1.9766	0.34	0.7592	0.13
7084	583.	0.6879	0.12	0.3000	0.05	1.7511	0.30	1.6288	0.28	1.4514	0.25	0.6434	0.11
7085	694.	0.8332	0.12	0.4072	0.06	1.9433	0.28	1.8133	0.26	1.7350	0.25	0.7442	0.11
7086	768.	0.8190	0.11	0.3980	0.05	1.9050	0.25	1.7578	0.23	1.7451	0.23	0.7727	0.10
7087	720.	0.7533	0.10	0.3565	0.05	2.0049	0.28	1.8686	0.26	1.2595	0.17	0.5074	0.07
7088	652.	0.8026	0.12	0.4121	0.06	2.0187	0.31	1.8621	0.28	1.7906	0.27	0.6682	0.10
7089	686.	0.8001	0.12	0.4265	0.06	1.8535	0.27	1.6621	0.24	1.1772	0.17	0.5970	0.09
7090	798.	0.8824	0.11	0.4534	0.06	2.3254	0.29	2.1177	0.26	1.9786	0.25	0.8181	0.10

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Rat 7070 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % TBW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % TBW	PROSTATE ABS. WT.	PROSTATE REL. % TBW	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
7061	636.	0.8928	0.14	2.0369	0.32	1.1219	0.18	0.012	1.89	2.46	0.39	25.91	4.07
7062	834.	0.7795	0.09	1.9916	0.24	0.9541	0.11	0.017	2.04	2.55	0.30	33.42	4.01
7063	699.	0.7643	0.11	1.8132	0.26	0.7885	0.11	0.015	2.14	2.59	0.37	28.61	4.09
7064	749.	0.8506	0.11	1.9443	0.26	1.2238	0.16	0.015	2.00	2.41	0.32	27.41	3.66
7065	682.	0.9475	0.14	2.2931	0.34	1.2017	0.18	0.013	1.91	2.46	0.36	28.12	4.12
7066	689.	0.7699	0.11	1.8491	0.27	0.9403	0.14	0.015	2.18	2.46	0.36	25.27	3.67
7067	713.	0.8010	0.11	1.9446	0.27	1.0989	0.15	0.016	2.24	2.39	0.34	29.65	4.16
7068	625.	0.7423	0.12	1.7282	0.28	0.7329	0.12	0.013	2.08	2.41	0.38	23.26	3.72
7069	589.	0.7450	0.13	1.8644	0.32	0.8460	0.14	0.018	3.06	2.27	0.38	26.75	4.54
7070	604.	0.4156b	0.07b	0.8942b	0.15b	2.2689c	0.38c	0.015	2.48	2.39	0.40	26.82	4.44
7071	625.	0.8238	0.13	1.7985	0.29	1.0162	0.16	0.021	3.36	2.42	0.39	25.23	4.04
7072	540.	0.8474	0.16	2.0673	0.38	0.8416	0.16	0.016	2.96	2.24	0.41	19.81	3.67
7073	677.	0.7176	0.10	1.9227	0.28	1.1170	0.16	0.022	3.25	2.72	0.40	29.06	4.29
7074	534.	0.7071	0.13	1.9805	0.37	1.2315	0.23	0.012	2.25	2.45	0.46	20.95	3.92
7075	623.	0.8597	0.14	2.0902	0.34	1.2146	0.19	0.012	1.93	2.41	0.39	24.38	3.91
7076	622.	0.9011	0.14	1.9882	0.32	1.3064	0.21	0.015	2.41	2.48	0.40	23.28	3.74
7077	622.	0.8322	0.13	1.9713	0.32	1.5837	0.25	0.009	1.45	2.38	0.38	23.11	3.72
7078	592.	0.8745	0.15	2.1838	0.37	1.4930	0.25	0.014	2.36	2.40	0.40	22.31	3.77
7079	668.	0.6808	0.10	1.6918	0.25	1.6170	0.24	0.015	2.24	2.46	0.37	27.52	4.12
7080	596.	0.8082	0.14	1.9886	0.33	1.4409	0.24	0.015	2.52	2.63	0.44	24.78	4.16
7081	634.	0.7949	0.12	1.9247	0.30	1.2907	0.20	0.014	2.21	2.58	0.41	24.78	3.91
7082	534.	0.7977	0.15	1.7238	0.32	1.0036	0.19	0.014	2.62	2.29	0.43	25.26	4.73
7083	589.	0.8170	0.14	1.6856	0.29	1.2952	0.22	0.017	2.89	2.38	0.40	23.30	3.96
7084	583.	0.7047	0.12	1.7254	0.30	1.2074	0.21	0.019	3.26	2.47	0.42	24.35	4.18
7085	694.	0.7901	0.11	1.9082	0.27	1.3841	0.20	0.021	3.02	2.53	0.36	27.39	3.95
7086	768.	0.8306	0.11	1.9230	0.25	1.1887	0.15	0.015	1.95	2.50	0.32	31.48	4.10
7087	720.	0.8092	0.11	2.0951	0.29	0.8551	0.12	0.010	1.39	2.49	0.34	30.27	4.20
7088	652.	0.8201	0.12	2.0373	0.31	1.2873	0.20	0.017	2.61	2.43	0.37	25.54	3.92
7089	686.	0.7880	0.11	1.8213	0.26	1.2863	0.19	0.012	1.75	2.48	0.36	24.77	3.61
7090	798.	0.9071	0.11	2.3195	0.29	1.0257	0.13	0.017	2.13	2.66	0.33	32.77	4.11

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Rat 7070 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

c. Rat 7070 had a mass on the prostate; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 9): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY					
7061	636.	5.16	0.81	0.048	0.01	1.14	0.18	0.050b	7.86	2.05	0.32
7062	834.	5.99	0.72	0.054	0.01	1.32	0.16	0.050	6.00	2.32	0.28
7063	699.	5.20	0.74	0.074	0.01	1.48	0.21	0.044	6.29	2.21	0.32
7064	749.	6.03	0.80	0.074	0.01	1.69	0.22	0.046	6.14	2.22	0.30
7065	682.	5.23	0.77	0.062	0.01	1.29	0.19	0.046	6.74	1.89	0.28
7066	689.	5.08	0.74	0.072	0.01	0.84	0.12	0.040	5.80	1.84	0.27
7067	713.	5.59	0.78	0.065	0.01	1.21	0.17	0.048	6.73	2.11	0.30
7068	625.	4.37	0.70	0.061	0.01	0.94	0.15	0.035	5.60	1.82	0.29
7069	589.	4.05	0.69	0.046	0.01	1.00	0.17	0.040	6.79	1.92	0.32
7070	604.	5.13	0.85	0.102	0.02	1.24	0.20	0.041	6.79	2.39	0.40
7071	625.	5.35	0.86	0.077	0.01	1.34	0.21	0.041	6.56	2.18	0.35
7072	540.	4.90	0.91	0.068	0.01	1.15	0.21	0.036	6.67	1.83	0.34
7073	677.	6.45	0.95	0.071	0.01	1.04	0.15	0.051	7.53	1.98	0.29
7074	534.	4.16	0.78	0.061	0.01	0.96	0.18	0.040	7.49	1.76	0.33
7075	623.	5.05	0.81	0.090	0.01	1.10	0.18	0.046	7.38	1.93	0.31
7076	622.	4.62	0.74	0.089	0.01	1.09	0.18	0.048	7.72	2.28	0.37
7077	622.	4.62	0.74	0.099	0.02	1.00	0.16	0.037	5.95	2.37	0.38
7078	592.	4.29	0.72	0.068	0.01	0.85	0.14	0.039	6.59	2.06	0.35
7079	668.	5.18	0.78	0.085	0.01	1.21	0.18	0.046	6.89	1.80	0.27
7080	596.	5.56	0.93	0.085	0.01	0.98	0.16	0.035	5.87	1.93	0.32
7081	634.	5.55	0.88	0.071	0.01	1.15	0.18	0.045	7.10	1.84	0.29
7082	534.	4.36	0.82	0.069	0.01	1.02	0.19	0.040	7.49	1.97	0.37
7083	589.	4.58	0.78	0.069	0.01	0.95	0.16	0.041	6.96	1.98	0.34
7084	583.	4.86	0.83	0.079	0.01	1.05	0.18	0.042	7.20	1.89	0.32
7085	694.	5.38	0.78	0.069	0.01	1.29	0.18	0.044	6.34	2.05	0.30
7086	768.	5.89	0.77	0.080	0.01	1.09	0.14	0.050	6.51	2.24	0.29
7087	720.	6.07	0.84	0.066	0.01	0.94	0.13	0.048	6.67	2.21	0.31
7088	652.	5.36	0.82	0.086	0.01	1.09	0.17	0.046	7.06	1.86	0.28
7089	686.	4.88	0.71	0.075	0.01	1.11	0.16	0.044	6.41	1.79	0.26
7090	798.	6.34	0.79	0.085	0.01	1.19	0.15	0.048	6.02	2.61	0.33

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 10): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % TBW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % TBW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % TBW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % TBW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % TBW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
7091	559.	0.6800	0.12	0.3301	0.06	1.7752	0.32	1.5815	0.28	1.7017	0.30	0.7024	0.12
7092	617.	0.8367	0.14	0.4154	0.07	2.2085	0.36	2.0061	0.32	2.4775	0.40	0.9498	0.15
7093	601.	0.7713	0.13	0.3530	0.06	2.1294	0.35	1.8944	0.32	1.3061	0.22	0.6941	0.12
7094	588.	0.8587	0.15	0.4311	0.07	2.0844	0.35	1.9257	0.33	1.5269	0.26	0.8478	0.14
7095	599.	0.7470	0.12	0.3547	0.06	1.9026	0.32	1.7522	0.29	2.1195	0.35	0.8421	0.14
7096	702.	0.8183	0.12	0.3878	0.06	1.9596	0.28	1.7270	0.25	2.1085	0.30	0.8050	0.11
7097	580.	0.7786	0.13	0.3505	0.06	1.7652	0.30	1.5107	0.26	1.8175	0.31	0.9737	0.17
7098	690.	0.7077	0.10	0.3198	0.05	1.7003	0.25	1.5796	0.23	1.5735	0.23	0.7207	0.10
7099	561.	0.7967	0.14	0.3095	0.06	1.9102	0.34	1.7531	0.31	1.4605	0.26	0.6413	0.11
7100	641.	0.7962	0.12	0.3360	0.05	1.9300	0.30	1.5701	0.24	1.5234	0.24	0.7226	0.11
7101	611.	0.7818	0.13	0.3725	0.06	1.9017	0.31	1.6666	0.27	1.8136	0.30	0.9234	0.15
7102	600.	0.7969	0.13	0.3700	0.06	2.0373	0.34	1.8988	0.32	2.5812	0.43	0.8426	0.14
7103	668.	0.8255	0.12	0.3992	0.06	2.2385	0.34	2.0786	0.31	2.5472	0.38	0.9221	0.14
7104	574.	0.7403	0.13	0.3627	0.06	1.7728	0.31	1.6184	0.28	1.6154	0.28	0.6505	0.11
7105	592.	0.7991	0.13	0.4134	0.07	1.8017	0.30	1.6808	0.28	1.4829	0.25	0.6906	0.12
7106	702.	0.7948	0.11	0.3676	0.05	1.9146	0.27	1.7769	0.25	1.9225	0.27	0.7150	0.10
7107	636.	0.8376	0.13	0.4199	0.07	2.1362	0.34	1.9493	0.31	1.4685	0.23	0.5301	0.08
7108	649.	0.7336	0.11	0.3265	0.05	1.8882	0.29	1.7107	0.26	1.8585	0.29	0.8910	0.14
7109	668.	0.7755	0.12	0.3613	0.05	1.9750	0.30	1.7624	0.26	1.7178	0.26	0.7254	0.11
7110	685.	0.9176	0.13	0.4214	0.06	2.1166	0.31	1.9304	0.28	1.8954	0.28	0.7961	0.12
7111a	---	0.95	----	------	----	2.03	----	------	----	2.57	----	2.47	----
7112	635.	0.8088	0.13	0.4357	0.07	1.8624	0.29	1.6500	0.26	1.7726	0.28	0.7865	0.12
7113b	---	0.96	----	------	----	2.02	----	------	----	------	----	------	----
7114	601.	0.7934	0.13	0.3412	0.06	1.7973	0.30	1.5337	0.26	1.5478	0.26	0.6664	0.11
7115c	---	1.39d	----	------	----	2.00	----	------	----	------	----	------	----
7116	678.	0.7843	0.12	0.3635	0.05	1.7330	0.26	1.5965	0.24	1.5472	0.23	0.7295	0.11
7117	705.	0.7859	0.11	0.3531	0.05	1.9983	0.28	1.8430	0.26	1.6202	0.23	0.7894	0.11
7118	696.	0.8899	0.13	0.4132	0.06	2.3107	0.33	2.1566	0.31	1.6495	0.24	0.6737	0.10
7119	697.	0.8040	0.12	0.4255	0.06	2.1360	0.31	1.9937	0.29	1.3671	0.20	0.6641	0.10
7120	692.	0.8733	0.13	0.4563	0.06	2.1226	0.31	1.9477	0.28	2.0683	0.30	0.9587	0.14

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Rat 7111 was found dead on day 131 postweaning; values excluded from group averages and statistical analyses.
b. Rat 7113 was found dead on day 95 postweaning; values excluded from group averages and statistical analyses.
c. Rat 7115 was found dead on day 82 postweaning; values excluded from group averages and statistical analyses.
d. Paired weight.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 11): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % TBW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % TBW	PROSTATE ABS. WT.	PROSTATE REL. % TBW	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
7091	559.	0.7717	0.14	1.8935	0.34	1.1158	0.20	0.017	3.04	2.40	0.43	25.76	4.61
7092	617.	0.8470	0.14	2.1651	0.35	1.0327	0.17	0.014	2.27	2.36	0.38	30.11	4.88
7093	601.	0.7370	0.12	2.1044	0.35	0.7754b	0.13	0.018	3.00	2.33	0.39	23.50	3.91
7094	588.	0.8580	0.14	2.1012	0.36	1.0447	0.18	0.017	2.89	2.40	0.41	21.28	3.62
7095	599.	0.7234	0.12	1.8432	0.31	1.1550b	0.19	0.018	3.00	2.58	0.43	c	----
7096	702.	0.7607	0.11	1.9434	0.28	0.9803	0.14	0.017	2.42	2.48	0.35	27.75	3.95
7097	580.	0.8172	0.14	1.8017	0.31	0.9268	0.16	0.014	2.41	2.43	0.42	21.19	3.65
7098	690.	0.7043	0.10	1.6636	0.24	0.8842	0.13	0.018	2.61	2.42	0.35	28.76	4.17
7099	561.	0.7859	0.14	1.8676	0.33	0.9801	0.17	0.017	3.03	2.33	0.42	22.59	4.03
7100	641.	0.7150	0.11	1.7217	0.27	0.9438	0.15	0.013	2.03	2.25	0.35	23.84	3.72
7101	611.	0.7949	0.13	1.9163	0.31	0.8236	0.13	0.015	2.45	2.22	0.36	23.09	3.78
7102	600.	0.7870	0.13	2.0790	0.35	1.1192	0.19	0.012	2.00	2.42	0.40	17.70	2.95
7103	668.	0.8704	0.13	2.2502	0.34	1.6967	0.25	0.015	2.24	2.55	0.38	25.03	3.75
7104	574.	0.7665	0.13	1.7290	0.30	1.3211	0.23	0.014	2.44	2.24	0.39	22.48	3.92
7105	592.	0.7666	0.13	1.8193	0.31	1.2648	0.21	0.012	2.03	2.22	0.38	22.78	3.85
7106	702.	0.7615	0.11	1.8472	0.26	1.5348	0.22	0.017	2.42	2.42	0.34	30.16	4.30
7107	636.	0.8659	0.14	2.1729	0.34	1.2258	0.19	0.016	2.52	2.27	0.36	23.78	3.74
7108	649.	0.7685	0.12	1.8461	0.28	1.6802	0.26	0.018	2.77	2.34	0.36	23.46	3.61
7109	668.	0.7792	0.12	1.9594	0.29	1.5263	0.23	0.022	3.29	2.45	0.37	27.74	4.15
7110	685.	0.8816	0.13	2.0653	0.30	1.3031	0.19	0.017	2.48	2.39	0.35	29.37	4.29
7111d	---	1.02	----	2.02	----	------	----	0.021	----	2.27	----	22.41	----
7112	635.	0.7988	0.12	1.8553	0.29	1.6648	0.26	0.015	2.36	2.50	0.39	26.08	4.11
7113e	---	0.90	----	2.02	----	------	----	0.014	----	2.27	----	29.18	----
7114	601.	0.7754	0.13	1.7687	0.29	1.1245	0.19	0.014	2.33	2.27	0.38	23.82	3.96
7115f	---	------	----	1.90	----	------	----	0.017	----	2.32	----	34.80	----
7116	678.	0.8003	0.12	1.7364	0.26	1.2568	0.18	0.014	2.06	2.32	0.34	27.11	4.00
7117	705.	0.8168	0.12	2.0360	0.29	1.3767	0.20	0.015	2.13	2.37	0.34	26.07	3.70
7118	696.	0.8567	0.12	2.3567	0.34	1.6657	0.24	0.015	2.16	2.43	0.35	29.24	4.20
7119	697.	0.7979	0.11	2.1306	0.30	0.9281	0.13	0.016	2.30	2.50	0.36	25.80	3.70
7120	692.	0.8491	0.12	2.0252	0.29	1.4901	0.22	0.014	2.02	2.57	0.37	28.91	4.18

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Value was not recorded.
d. Rat 7111 was found dead on day 131 postweaning; values excluded from group averages and statistical analyses.
e. Rat 7113 was found dead on day 95 postweaning; values excluded from group averages and statistical analyses.
f. Rat 7115 was found dead on day 82 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D24 (PAGE 12): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY					
7091	559.	4.70	0.84	0.056	0.01	1.00	0.18	0.081	14.49	1.79	0.32
7092	617.	5.33	0.86	0.063	0.01	1.32	0.21	0.068b	11.02	2.07	0.34
7093	601.	5.01	0.83	0.076	0.01	1.16	0.19	0.058	9.65	1.71	0.28
7094	588.	5.20	0.88	0.071	0.01	0.92	0.16	0.061	10.37	2.12	0.36
7095	599.	4.86	0.81	0.066	0.01	1.11	0.18	0.064	10.68	1.95	0.32
7096	702.	5.47	0.78	0.075	0.01	1.13	0.16	0.066	9.40	2.18	0.31
7097	580.	4.29	0.74	0.065	0.01	1.06	0.18	0.053	9.14	2.09	0.36
7098	690.	4.86	0.70	0.064	0.01	1.39	0.20	0.056	8.12	1.80	0.26
7099	561.	4.40	0.78	0.081	0.01	1.10	0.20	0.042	7.49	1.61	0.29
7100	641.	4.97	0.78	0.056	0.01	0.96	0.15	0.060	9.36	1.79	0.28
7101	611.	5.08	0.83	0.067	0.01	0.85	0.14	0.067	10.96	1.84	0.30
7102	600.	4.27	0.71	0.061	0.01	1.04	0.17	0.036	6.00	1.90	0.32
7103	668.	5.76	0.86	0.061	0.01	1.10	0.16	0.065	9.73	2.03	0.30
7104	574.	4.83	0.84	0.080	0.01	0.97	0.17	0.044	7.66	1.78	0.31
7105	592.	5.17	0.87	0.090	0.02	1.04	0.18	0.045	7.60	1.75	0.30
7106	702.	5.99	0.85	0.068	0.01	1.24	0.18	0.087	12.39	2.11	0.30
7107	636.	5.21	0.82	0.083	0.01	0.93	0.15	0.052	8.18	1.74	0.27
7108	649.	5.44	0.84	0.090	0.01	1.04	0.16	0.081	12.48	1.85	0.28
7109	668.	4.98	0.74	0.075	0.01	1.01	0.15	0.073	10.93	1.85	0.28
7110	685.	5.30	0.77	0.091	0.01	1.14	0.17	0.026c	3.80c	2.04	0.30
7111d	---	5.20	----	0.067	----	0.84	----	0.082	----	2.01	----
7112	635.	4.89	0.77	0.057	0.01	1.16	0.18	0.062	9.76	2.09	0.33
7113e	---	5.64	----	0.073	----	1.02	----	0.063	----	2.11	----
7114	601.	4.12	0.68	0.068	0.01	0.94	0.16	0.069	11.48	1.71	0.28
7115f	---	5.66	----	0.079	----	1.02	----	0.073	----	2.19	----
7116	678.	5.63	0.83	0.086	0.01	1.22	0.18	0.077	11.36	2.21	0.32
7117	705.	5.13	0.73	0.074	0.01	1.12	0.16	0.074	10.50	2.21	0.31
7118	696.	5.56	0.80	0.064	0.01	1.10	0.16	0.062	8.91	2.20	0.32
7119	697.	5.61	0.80	0.063	0.01	1.08	0.15	0.070	10.04	2.10	0.30
7120	692.	5.99	0.86	0.072	0.01	1.14	0.16	0.065	9.39	2.28	0.33

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.
d. Rat 7111 was found dead on day 131 postweaning; values excluded from group averages and statistical analyses.
e. Rat 7113 was found dead on day 95 postweaning; values excluded from group averages and statistical analyses.
f. Rat 7115 was found dead on day 82 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 1): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
7001	2.37	0.7344	30.99	0.3371	14.22	1.7184	72.51	1.6208	68.39	1.8364	77.48	0.7407	31.25
7002	2.29	0.7206	31.47	0.3355	14.65	1.6727	73.04	1.5252	66.60	1.9561	85.42	0.7322	31.97
7003	2.46	0.8051	32.73	0.3933	15.99	1.8284	74.32	1.6660	67.72	1.8298	74.38	0.6912	28.10
7004	2.44	0.3554a	14.56a	0.1396a	5.72a	0.4605a	18.87a	0.3308a	13.56a	1.3810	56.60	0.5657	23.18
7005	2.46	0.7931	32.24	0.3982	16.19	1.8758	76.25	1.6272	66.15	1.4359	58.37	0.5156	20.96
7006	2.18	0.6881	31.56	0.2974	13.64	1.6880	77.43	1.4965	68.65	1.4162	64.96	0.6741	30.92
7007	2.51	0.7768	30.95	0.3244	12.92	2.0561	81.92	1.7770	70.80	1.8420	73.39	0.7287	29.03
7008	2.41	0.8379	34.77	0.4080	16.93	1.7629	73.15	1.6066	66.66	1.7537	72.77	0.6649	27.59
7009	2.33	0.6865	29.46	0.2853	12.24	1.8480	79.31	1.6916	72.60	1.9394	83.24	0.7607	32.65
7010	2.35	0.7851	33.41	0.3603	15.33	1.8799	80.00	1.7219	73.27	2.0373	86.69	0.9475	40.32
7011	2.49	0.7923	31.82	0.3426	13.76	1.6810	67.51	1.5572	62.54	1.9604	78.73	1.0325	41.46
7012	2.31	0.6250	27.06	0.2904	12.57	2.0068	86.87	1.8368	79.52	1.9883	86.07	0.7423	32.13
7013	2.39	0.8108	33.92	0.3728	15.60	1.9344	80.94	1.8400	76.99	1.7155	71.78	0.7295	30.52
5450	2.41	0.7022	29.14	0.3409	14.14	1.7792	73.82	1.6300	67.63	1.9424	80.60	0.6730	27.92
7015	2.29	0.6986	30.51	0.3446	15.05	1.7309	75.58	1.5768	68.86	1.7696	77.28	0.7725	33.73
7016	2.39	0.7439	31.12	0.3456	14.46	1.7022	71.22	1.5803	66.12	1.0833	45.33	0.6005	25.12
7017	2.28	0.8208	36.00	0.3756	16.47	1.7849	78.28	1.5795	69.28	2.2588	99.07	0.9501	41.67
7018	2.18	0.7557	34.66	0.3634	16.67	1.7139	78.62	1.5564	71.39	1.9575	89.79	0.7020	32.20
7019	2.36	0.6835	28.96	0.3031	12.84	1.6461	69.75	1.3584	57.56	1.6601	70.34	0.6800	28.81
7020	2.40	0.8069	33.62	0.4032	16.80	2.1118	87.99	1.9199	80.00	1.6443	68.51	0.7388	30.78
7021	2.36	0.8471	35.89	0.4296	18.20	1.7603	74.59	1.6593	70.31	1.7756	75.24	0.7228	30.63
7022	2.21	0.7747	35.05	0.3708	16.78	1.7688	80.04	1.5981	72.31	1.7434	78.89	0.6557	29.67
7023	2.41	0.7556	31.35	0.3728	15.47	2.0236	83.97	1.8742	77.77	1.8103	75.12	0.7054	29.27
7024	2.46	0.9451	38.42	0.3966	16.12	2.3732	96.47	2.1759	88.45	1.4813	60.22	0.6746	27.42
7025	2.41	0.8463	35.12	0.3306	13.72	1.7930	74.40	1.5512	64.36	1.8449	76.55	0.8007	33.22
7026	2.54	0.7128	28.06	0.3534	13.91	1.8085	71.20	1.6726	65.85	1.9908	78.38	0.7375	29.04
7027	2.48	0.7830	31.57	0.3784	15.26	1.9606	79.06	1.7871	72.06	1.8405	74.21	0.5908	23.82
7028	2.50	0.7823	31.29	0.3624	14.50	2.0011	80.04	1.8193	72.77	1.9382	77.53	0.7229	28.92
7029	2.30	0.6664	28.97	0.3122	13.57	1.6762	72.88	1.4890	64.74	1.4236	61.90	0.5164	22.45
7030	2.49	0.7083	28.44	0.3236	13.00	2.0320	81.61	1.8206	73.12	1.5885	63.80	0.6349	25.50

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 7004 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 2): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
7001	2.37	0.7639	32.23	1.7920	75.61	0.8287	34.97	0.015	0.63	24.81	1046.84	5.02	211.81
7002	2.29	0.7060	30.83	1.6810	73.41	1.2280	53.62	0.014	0.61	21.97	959.39	4.76	207.86
7003	2.46	0.8248	33.53	1.7695	71.93	1.1559	46.99	0.015	0.61	22.59	918.29	4.75	193.09
7004	2.44	0.3915a	16.04a	0.4425a	18.14a	0.8892	36.44	0.014	0.57	25.14	1030.33	4.70	192.62
7005	2.46	0.7684	31.24	1.8615	75.67	1.2122	49.28	0.014	0.57	21.22	862.60	5.01	203.66
7006	2.18	0.7176	32.92	1.7135	78.60	0.7907	36.27	0.008	0.37	20.21	927.06	4.10	188.07
7007	2.51	0.7598	30.27	2.1830	86.97	1.3134	52.33	0.020	0.80	34.23	1363.74	5.94	236.65
7008	2.41	0.8602	35.69	1.7994	74.66	1.0883	45.16	0.015	0.62	26.22	1087.97	5.20	215.77
7009	2.33	0.7175	30.79	1.7700	75.96	0.9164	39.33	0.011	0.47	22.81	978.97	3.98	170.82
7010	2.35	0.7688	32.71	1.9465	82.83	1.0358	44.08	0.015	0.64	24.58	1045.96	4.54	193.19
7011	2.49	0.7914	31.78	1.7910	71.93	1.0580	42.49	0.015	0.60	18.06	725.30	4.09	164.26
7012	2.31	0.7077	30.64	1.9462	84.25	0.8890	38.48	0.016	0.69	22.59	977.92	4.50	194.80
7013	2.39	0.8374	35.04	2.0497	85.76	1.3315	55.71	0.014	0.58	27.42	1147.28	4.93	206.28
5450	2.41	0.7284	30.22	1.7147	71.15	0.9735	40.39	0.013	0.54	25.43	1055.19	4.91	203.73
7015	2.29	0.7208	31.48	1.7135	74.82	1.3647	59.59	0.014	0.61	25.90	1131.00	5.26	229.69
7016	2.39	0.7325	30.65	1.8000	75.31	0.9869	41.29	0.012	0.50	18.98	794.14	3.88	162.34
7017	2.28	0.8216	36.04	1.7456	76.56	1.2883	56.50	0.015	0.66	24.53	1075.88	5.02	220.18
7018	2.18	0.7764	35.61	1.7607	80.77	1.2130	55.64	0.014	0.64	17.44	800.00	4.12	188.99
7019	2.36	0.6953	29.46	1.6262	68.91	1.0637	45.07	0.014	0.59	26.14	1107.63	5.02	212.71
7020	2.40	0.7916	32.98	2.0044	83.52	1.5601	65.00	0.014	0.58	33.52	1396.67	5.82	242.50
7021	2.36	0.7605	32.22	1.6950	71.82	1.4003	59.33	0.015	0.64	25.73	1090.25	4.82	204.24
7022	2.21	0.7311	33.08	1.7970	81.31	1.2221	55.30	0.014	0.63	25.43	1150.68	4.33	195.93
7023	2.41	0.8140	33.78	2.0455	84.88	1.2386	51.39	0.020	0.83	27.21	1129.04	5.36	222.41
7024	2.46	0.8139	33.08	2.2328	90.76	1.0888	44.26	0.015	0.61	32.16	1307.32	5.73	232.93
7025	2.41	0.8555	35.50	1.8225	75.62	1.2524	51.97	0.009	0.37	25.20	1045.64	4.57	189.63
7026	2.54	0.7514	29.58	1.8142	71.42	1.1506	45.30	0.012	0.47	22.58	888.98	4.73	186.22
7027	2.48	0.7745	31.23	2.0161	81.29	1.5552	62.71	0.013	0.52	28.40	1145.16	6.00	241.94
7028	2.50	0.7826	31.30	1.9094	76.38	1.3305	53.22	0.016	0.64	27.10	1084.00	5.35	214.00
7029	2.30	0.7115	30.93	1.7043	74.10	1.1105	48.28	0.013	0.56	23.45	1019.56	4.92	213.91
7030	2.49	0.7554	30.34	2.0849	83.73	1.2738	51.16	0.010	0.40	20.52	824.10	3.80	152.61

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 7004 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 3): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY			
7001	2.37	0.060	2.53	1.07	45.15	0.039	1.64	1.76	74.26
7002	2.29	0.055	2.40	0.90	39.30	0.035	1.53	1.96	85.59
7003	2.46	0.074	3.01	1.07	43.50	0.041	1.67	1.85	75.20
7004	2.44	0.067	2.74	1.32	54.10	0.043	1.76	1.94	79.51
7005	2.46	0.064	2.60	0.93	37.80	0.038	1.54	1.87	76.02
7006	2.18	0.067	3.07	0.97	44.50	0.032	1.47	2.09	95.87
7007	2.51	0.074	2.95	1.35	53.78	0.036a	1.43	2.22	88.45
7008	2.41	0.067	2.78	1.16	48.13	0.033	1.37	2.14	88.80
7009	2.33	0.052	2.23	0.80	34.33	0.037	1.59	1.39	59.66
7010	2.35	0.055	2.34	0.93	39.57	0.031	1.32	1.85	78.72
7011	2.49	0.056	2.25	0.90	36.14	0.037	1.48	2.01	80.72
7012	2.31	0.069	2.99	0.93	40.26	0.036	1.56	1.92	83.12
7013	2.39	0.073	3.05	1.23	51.46	0.036	1.51	2.04	85.36
5450	2.41	0.068	2.82	0.88	36.51	0.037	1.54	1.88	78.01
7015	2.29	0.077	3.36	0.92	40.17	0.034	1.48	1.76	76.86
7016	2.39	0.048	2.01	0.92	38.49	0.030	1.26	1.50	62.76
7017	2.28	0.059	2.59	0.98	42.98	0.028a	1.23	1.82	79.82
7018	2.18	0.079	3.62	0.90	41.28	0.032a	1.47	1.61	73.85
7019	2.36	0.070	2.97	1.07	45.34	0.046	1.95	1.73	73.30
7020	2.40	0.089	3.71	1.15	47.92	0.048	2.00	2.31	96.25
7021	2.36	0.076	3.22	0.93	39.41	0.027a	1.14	1.99	84.32
7022	2.21	0.067	3.03	0.96	43.44	0.035	1.58	2.35	106.33
7023	2.41	0.076	3.15	0.97	40.25	0.036	1.49	1.95	80.91
7024	2.46	0.085	3.46	1.44	58.54	0.038	1.54	2.08	84.55
7025	2.41	0.065	2.70	1.00	41.49	0.033	1.37	1.91	79.25
7026	2.54	0.065	2.56	1.02	40.16	0.041	1.61	1.74	68.50
7027	2.48	0.086	3.47	1.06	42.74	0.039a	1.57	1.86	75.00
7028	2.50	0.080	3.20	1.01	40.40	0.042	1.68	2.08	83.20
7029	2.30	0.088	3.83	0.86	37.39	0.044	1.91	1.88	81.74
7030	2.49	0.064	2.57	0.80	32.13	0.027	1.08	1.79	71.89

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 4): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
7031	2.32	0.7673	33.07	0.3603	15.53	2.0319	87.58	1.9027	82.01	2.0343	87.68	0.7550	32.54
7032	2.41	0.8723	36.20	0.3984	16.53	2.1934	91.01	1.9916	82.64	2.1943	91.05	0.7593	31.51
7033	2.63	0.7196	27.36	0.3688	14.02	1.8943	72.03	1.6617	63.18	1.8428a	70.07a	0.8772	33.35
7034	2.52	0.7733	30.69	0.3742	14.85	1.9520	77.46	1.8154	72.04	2.3458	93.09	0.9327	37.01
7035	2.37	0.8439	35.61	0.4100	17.30	2.1773	91.87	1.9346	81.63	1.3842a	58.40a	0.6906	29.14
7036	2.55	0.8192	32.12	0.3579	14.04	2.0591	80.75	1.8902	74.12	2.3943	93.89	1.0156	39.83
7037	2.46	0.8344	33.92	0.3837	15.60	1.9877	80.80	1.8546	75.39	2.2047	89.62	0.9819	39.91
7038	2.50	0.7418	29.67	0.3364	13.46	1.8375	73.50	1.6891	67.56	1.9349	77.40	0.9305	37.22
7039	2.37	0.8192	34.56	0.3772	15.92	1.7169	72.44	1.5728	66.36	1.7601	74.26	0.6416	27.07
7040	2.55	0.7482	29.34	0.3293	12.91	2.0171	79.10	1.8741	73.49	1.7171	67.34	0.6431	25.22
7041	2.38	0.7374	30.98	0.3422	14.38	1.8554	77.96	1.6428	69.02	1.7185	72.20	0.7003	29.42
7042	2.30	0.7001	30.44	0.3359	14.60	1.5838	68.86	1.4330	62.30	1.6261	70.70	0.7943	34.53
7043	2.49	0.8094	32.51	0.3654	14.67	2.1546	86.53	1.9532	78.44	1.5898	63.85	0.6653	26.72
7044	2.57	0.8020	31.21	0.4293	16.70	1.8975	73.83	1.6454	64.02	1.6364	63.67	0.6340	24.67
7045	2.48	0.7406	29.86	0.3864	15.58	1.8460	74.44	1.6807	67.77	1.5914	64.17	0.7117	28.70
7046	2.44	0.7700	31.56	0.3721	15.25	2.0341	83.36	1.8029	73.89	2.3371	95.78	0.8931	36.60
7047	2.52	0.8950	35.52	0.4172	16.56	2.0867	82.80	1.8899	75.00	2.0289	80.51	0.7309	29.00
7048	2.23	0.6892	30.90	0.2876	12.90	1.7028	76.36	1.5588	69.90	1.8402	82.52	0.6699	30.04
7049	2.33	0.6444	27.66	0.2999	12.87	1.5205	65.26	1.4140	60.69	1.6090	69.06	0.6182	26.53
7050	2.40	0.8858	36.91	0.4581	19.09	1.9993	83.30	1.8653	77.72	1.5040	62.67	0.6353	26.47
7051	2.23	0.7082	31.76	0.3350	15.02	1.9092	85.61	1.6896	75.77	1.6203	72.66	0.6621	29.69
7052	2.26	0.8878	39.28	0.3892	17.22	1.9483	86.21	1.7522	77.53	2.2653	100.23	0.7249	32.08
7053	2.42	0.8505	35.14	0.4294	17.74	1.9598	80.98	1.7116	70.73	2.0078	82.97	0.9198	38.01
7054	3.00	0.8917	29.72	0.3929	13.10	2.2873	76.24	2.0077	66.92	1.7958	59.86	0.8650	28.83
7055	2.63	0.7014	26.67	0.3102	11.79	1.8594	70.70	1.7218	65.47	1.6993	64.61	0.7174	27.28
7056	2.42	0.7311	30.21	0.3379	13.96	1.8213	75.26	1.4820	61.24	1.3062	53.98	0.5875	24.28
7057	2.23	0.8700	39.01	0.3866	17.34	1.8997	85.19	1.7444	78.22	1.6197	72.63	0.6515	29.22
7058	2.41	0.8396	34.84	0.3882	16.11	2.0994	87.11	1.9652	81.54	1.9703	81.76	0.6591	27.35
7059	2.35	0.8176	34.79	0.3827	16.28	2.0602	87.67	1.8724	79.68	1.6186	68.88	0.8370	35.62
7060	2.36	0.7880	33.39	0.3634	15.40	1.9887	84.27	1.8381	77.88	1.2065	51.12	0.5508	23.34

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 5): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
7031	2.32	0.8109	34.95	2.0366	87.78	1.0822	46.65	0.016	0.69	31.34	1350.86	5.79	249.57
7032	2.41	0.8365	34.71	2.1999	91.28	0.9615	39.90	0.013	0.54	27.43	1138.17	5.34	221.58
7033	2.63	0.7759	29.50	1.9632	74.65	1.1095	42.19	0.017	0.65	26.91	1023.19	5.86	222.81
7034	2.52	0.8770	34.80	1.9748	78.36	1.4001	55.56	0.014	0.56	28.05	1113.10	5.79	229.76
7035	2.37	0.8611	36.33	2.1839	92.15	1.1494	48.50	0.014	0.59	27.54	1162.02	5.67	239.24
7036	2.55	0.8922	34.99	2.0900	81.96	1.0612	41.62	0.015	0.59	23.74	930.98	4.83	189.41
7037	2.46	0.8122	33.02	2.0055	81.52	1.1497	46.74	0.014	0.57	31.01	1260.57	4.82	195.93
7038	2.50	0.7875	31.50	1.8770	75.08	0.9255	37.02	0.016	0.64	30.30	1212.00	5.64	225.60
7039	2.37	0.8263	34.86	1.7196	72.56	0.8086	34.12	0.012	0.51	33.05	1394.51	5.01	211.39
7040	2.55	0.7355	28.84	2.0295	79.59	0.7597	29.79	0.016	0.63	29.03	1138.43	5.16	202.35
7041	2.38	0.7170	30.13	1.9675	82.67	0.6956	29.23	0.016	0.67	25.32	1063.86	4.83	202.94
7042	2.30	0.7428	32.30	1.6797	73.03	0.9368	40.73	0.020	0.87	25.23	1096.96	4.42	192.17
7043	2.49	0.8330	33.45	2.1826	87.65	1.1907	47.82	0.014	0.56	26.26	1054.62	5.19	208.43
7044	2.57	0.7410	28.83	1.9331	75.22	1.5361	59.77	0.014	0.54	24.16	940.08	4.84	188.33
7045	2.48	0.7706	31.07	1.8663	75.25	1.5565	62.76	0.027	1.09	30.08	1212.90	5.61	226.21
7046	2.44	0.8222	33.70	2.0567	84.29	1.2360	50.66	0.016	0.66	24.77	1015.16	5.08	208.20
7047	2.52	0.9154	36.32	2.0959	83.17	1.0187	40.42	0.017	0.67	25.45	1009.92	4.90	194.44
7048	2.23	0.7198	32.28	1.6715	74.96	1.6893	75.75	0.016	0.72	30.49	1367.26	5.74	257.40
7049	2.33	0.6934	29.76	1.5382	66.02	1.3446	57.71	0.015	0.64	28.38	1218.02	5.18	222.32
7050	2.40	0.8522	35.51	2.0106	83.78	1.3551	56.46	0.022	0.92	34.08	1420.00	5.16	215.00
7051	2.23	0.7734	34.68	1.9024	85.31	1.1028	49.45	0.015	0.67	22.93	1028.25	4.76	213.45
7052	2.26	0.7824	34.62	1.9022	84.17	1.1928	52.78	0.012	0.53	20.95	926.99	4.88	215.93
7053	2.42	0.8385	34.65	1.9539	80.74	1.2695	52.46	0.015	0.62	24.42	1009.09	4.84	200.00
7054	3.00	0.8275	27.58	2.2504	75.01	1.4650	48.83	0.022	0.73	35.45	1181.67	6.25	208.33
7055	2.63	0.6803	25.87	1.8362	69.82	0.9608	36.53	0.016	0.61	28.52	1084.41	5.37	204.18
7056	2.42	0.7902	32.65	1.8040	74.54	1.1117	45.94	0.016	0.66	24.50	1012.40	5.21	215.29
7057	2.23	0.8241	36.96	1.9284	86.48	1.1082	49.70	0.014	0.63	21.67	971.75	4.48	200.90
7058	2.41	0.8447	35.05	2.1281	88.30	1.0392	43.12	0.016	0.66	26.38	1094.60	5.08	210.79
7059	2.35	0.8342	35.50	2.0486	87.17	1.0272	43.71	0.018	0.76	25.37	1079.57	5.17	220.00
7060	2.36	0.8827	37.40	2.0740	87.88	0.8821	37.38	0.018	0.76	26.24	1111.86	5.89	249.58

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 6): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 2						0.3 MG/KG/DAY			
7031	2.32	0.060	2.59	1.49	64.22	0.034	1.46	1.95	84.05
7032	2.41	0.068	2.82	1.11	46.06	0.026	1.08	1.93	80.08
7033	2.63	0.067	2.55	0.98	37.26	0.026	0.99	1.78	67.68
7034	2.52	0.052	2.06	0.95	37.70	0.048	1.90	2.05	81.35
7035	2.37	0.058	2.45	0.96	40.51	0.041	1.73	1.96	82.70
7036	2.55	0.068	2.67	1.22	47.84	0.035	1.37	2.01	78.82
7037	2.46	0.063	2.56	1.17	47.56	0.045	1.83	2.01	81.71
7038	2.50	0.086	3.44	1.07	42.80	0.039	1.56	1.95	78.00
7039	2.37	0.074	3.12	1.05	44.30	0.044	1.86	1.94	81.86
7040	2.55	0.063	2.47	1.30	50.98	0.047a	1.84	2.04	80.00
7041	2.38	0.068	2.86	1.69	71.01	0.068	2.86	3.18	133.61
7042	2.30	0.055	2.39	0.90	39.13	0.034	1.48	1.70	73.91
7043	2.49	0.080	3.21	1.31	52.61	0.039	1.57	2.09	83.94
7044	2.57	0.068	2.64	1.10	42.80	0.028	1.09	1.88	73.15
7045	2.48	0.077	3.10	1.23	49.60	0.049	1.98	2.08	83.87
7046	2.44	0.074	3.03	0.95	38.93	0.034	1.39	1.82	74.59
7047	2.52	0.074	2.94	1.24	49.21	0.034	1.35	2.00	79.36
7048	2.23	0.079	3.54	0.90	40.36	0.037	1.66	1.96	87.89
7049	2.33	0.058	2.49	0.85	36.48	0.036	1.54	1.97	84.55
7050	2.40	0.078	3.25	1.03	42.92	0.054	2.25	2.21	92.08
7051	2.23	0.068	3.05	0.96	43.05	0.042	1.88	1.71	76.68
7052	2.26	0.074	3.27	0.96	42.48	0.036	1.59	1.99	88.05
7053	2.42	0.070	2.89	1.03	42.56	0.047	1.94	1.95	80.58
7054	3.00	0.073	2.43	1.10	36.67	0.050	1.67	2.31	77.00
7055	2.63	0.100	3.80	1.12	42.58	0.042	1.60	1.97	74.90
7056	2.42	0.084	3.47	1.17	48.35	0.040	1.65	1.76	72.73
7057	2.23	0.057	2.56	0.81	36.32	0.043	1.93	1.65	73.99
7058	2.41	0.074	3.07	1.28	53.11	0.038a	1.58	2.37	98.34
7059	2.35	0.080	3.40	0.46	19.57	0.038	1.62	1.93	82.13
7060	2.36	0.089	3.77	1.14	48.30	0.049	2.08	2.13	90.25

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 7): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
7061	2.46	0.7744	31.48	0.3589	14.59	1.9987	81.25	1.9100	77.64	1.6896	68.68	0.7474	30.38
7062	2.55	0.7828	30.70	0.3293	12.91	2.0397	79.99	1.8051	70.79	1.6088	63.09	0.6998	27.44
7063	2.59	0.7636	29.48	0.3341	12.90	1.7919	69.18	1.5833	61.13	1.7610	67.99	0.7098	27.40
7064	2.41	0.7954	33.00	0.3288	13.64	1.9642	81.50	1.7549	72.82	1.9138	79.41	1.0318	42.81
7065	2.46	0.9579	38.94	0.4713	19.16	2.2640	92.03	2.0753	84.36	1.8246	74.17	0.7850	31.91
7066	2.46	0.7616	30.96	0.3948	16.05	1.6666	67.75	1.5385	62.54	2.2299	90.65	0.9957	40.48
7067	2.39	0.7668	32.08	0.3622	15.15	1.9691	82.39	1.7889	74.85	1.4494	60.64	0.5965	24.96
7068	2.41	0.7014	29.10	0.3070	12.74	1.7019	70.62	1.5500	64.32	1.3830	57.38	0.6398	26.55
7069	2.27	0.7758	34.18	0.3677	16.20	1.8200	80.18	1.6637	73.29	1.4328	63.12	0.7037	31.00
7070	2.39	0.4462a	18.67a	0.1867a	7.81a	0.9794a	40.98a	0.4813a	20.14a	1.2652	52.94	0.5855	24.50
7071	2.42	0.7828	32.35	0.2834	11.71	1.8426	76.14	1.6666	68.87	2.3467	96.97	0.9587	39.62
7072	2.24	0.8858	39.54	0.3715	16.58	2.0978	93.65	1.9205	85.74	2.2601	100.90	1.0206	45.56
7073	2.72	0.7055	25.94	0.3338	12.27	1.8535	68.14	1.7078	62.79	1.5652	57.54	0.7812	28.72
7074	2.45	0.7794	31.81	0.3666	14.96	2.0587	84.03	1.9206	78.39	2.0131	82.17	0.6861	28.00
7075	2.41	0.8295	34.42	0.3698	15.34	2.0582	85.40	1.8928	78.54	1.7158	71.20	0.7213	29.93
7076	2.48	0.9102	36.70	0.3438	13.86	2.0425	82.36	1.8588	74.95	1.1438	46.12	0.6830	27.54
7077	2.38	0.8560	35.97	0.4253	17.87	1.9378	81.42	1.7579	73.86	2.4827	104.32	0.9426	39.60
7078	2.40	0.7969	33.20	0.3519	14.66	2.1544	89.77	1.9972	83.22	1.9269	80.29	0.7759	32.33
7079	2.46	0.6787	27.59	0.2895	11.77	1.6936	68.84	1.5348	62.39	2.1067	85.64	0.9102	37.00
7080	2.63	0.8105	30.82	0.3492	13.28	1.9687	74.86	1.8228	69.31	2.0727	78.81	0.7490	28.48
7081	2.58	0.8432	32.68	0.3881	15.04	1.8316	70.99	1.6717	64.79	1.4961	57.99	0.6437	24.95
7082	2.29	0.7347	32.08	0.3703	16.17	1.7800	77.73	1.6340	71.35	1.7608	76.89	0.7415	32.38
7083	2.38	0.7510	31.55	0.3469	14.58	1.7163	72.11	1.5162	63.70	1.9766	83.05	0.7592	31.90
7084	2.47	0.6879	27.85	0.3000	12.14	1.7511	70.89	1.6288	65.94	1.4514	58.76	0.6434	26.05
7085	2.53	0.8332	32.93	0.4072	16.09	1.9433	76.81	1.8133	71.67	1.7350	68.58	0.7442	29.42
7086	2.50	0.8190	32.76	0.3980	15.92	1.9050	76.20	1.7578	70.31	1.7451	69.80	0.7727	30.91
7087	2.49	0.7533	30.25	0.3565	14.32	2.0049	80.52	1.8686	75.04	1.2595	50.58	0.5074	20.38
7088	2.43	0.8026	33.03	0.4121	16.96	2.0187	83.07	1.8621	76.63	1.7906	73.69	0.6682	27.50
7089	2.48	0.8001	32.26	0.4265	17.20	1.8535	74.74	1.6621	67.02	1.1772	47.47	0.5970	24.07
7090	2.66	0.8824	33.17	0.4534	17.04	2.3254	87.42	2.1177	79.61	1.9786	74.38	0.8181	30.76

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 7070 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 8): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
7061	2.46	0.8928	36.29	2.0369	82.80	1.1219	45.60	0.012	0.49	25.91	1053.25	5.16	209.76
7062	2.55	0.7795	30.57	1.9916	78.10	0.9541	37.42	0.017	0.67	33.42	1310.59	5.99	234.90
7063	2.59	0.7643	29.51	1.8132	70.01	0.7885	30.44	0.015	0.58	28.61	1104.63	5.20	200.77
7064	2.41	0.8506	35.29	1.9443	80.68	1.2238	50.78	0.015	0.62	27.41	1137.34	6.03	250.21
7065	2.46	0.9475	38.52	2.2931	93.22	1.2017	48.85	0.013	0.53	28.12	1143.09	5.23	212.60
7066	2.46	0.7699	31.30	1.8491	75.17	0.9403	38.22	0.015	0.61	25.27	1027.24	5.08	206.50
7067	2.39	0.8010	33.51	1.9446	81.36	1.0989	45.98	0.016	0.67	29.65	1240.58	5.59	233.89
7068	2.41	0.7423	30.80	1.7282	71.71	0.7329	30.41	0.013	0.54	23.26	965.14	4.37	181.33
7069	2.27	0.7450	32.82	1.8644	82.13	0.8460	37.27	0.018	0.79	26.75	1178.41	4.05	178.41
7070	2.39	0.4156a	17.39a	0.8942a	37.41a	2.2689b	94.93b	0.015	0.63	26.82	1122.18	5.13	214.64
7071	2.42	0.8238	34.04	1.7985	74.32	1.0162	41.99	0.021	0.87	25.23	1042.56	5.35	221.07
7072	2.24	0.8474	37.83	2.0673	92.29	0.8416	37.57	0.016	0.71	19.81	884.38	4.90	218.75
7073	2.72	0.7176	26.38	1.9227	70.69	1.1170	41.07	0.022	0.81	29.06	1068.38	6.45	237.13
7074	2.45	0.7071	28.86	1.9805	80.84	1.2315	50.26	0.012	0.49	20.95	855.10	4.16	169.80
7075	2.41	0.8597	35.67	2.0902	86.73	1.2146	50.40	0.012	0.50	24.38	1011.62	5.05	209.54
7076	2.48	0.9011	36.33	1.9882	80.17	1.3064	52.68	0.015	0.60	23.28	938.71	4.62	186.29
7077	2.38	0.8322	34.97	1.9713	82.83	1.5837	66.54	0.009	0.38	23.11	971.01	4.62	194.12
7078	2.40	0.8745	36.44	2.1838	90.99	1.4930	62.21	0.014	0.58	22.31	929.58	4.29	178.75
7079	2.46	0.6808	27.67	1.6918	68.77	1.6170	65.73	0.015	0.61	27.52	1118.70	5.18	210.57
7080	2.63	0.8082	30.73	1.9886	75.61	1.4409	54.79	0.015	0.57	24.78	942.20	5.56	211.41
7081	2.58	0.7949	30.81	1.9247	74.60	1.2907	50.03	0.014	0.54	24.78	960.46	5.55	215.12
7082	2.29	0.7977	34.83	1.7238	75.28	1.0036	43.82	0.014	0.61	25.26	1103.06	4.36	190.39
7083	2.38	0.8170	34.33	1.6856	70.82	1.2952	54.42	0.017	0.71	23.30	978.99	4.58	192.44
7084	2.47	0.7047	28.53	1.7254	69.85	1.2074	48.88	0.019	0.77	24.35	985.83	4.86	196.76
7085	2.53	0.7901	31.23	1.9082	75.42	1.3841	54.71	0.021	0.83	27.39	1082.61	5.38	212.65
7086	2.50	0.8306	33.22	1.9230	76.92	1.1887	47.55	0.015	0.60	31.48	1259.20	5.89	235.60
7087	2.49	0.8092	32.50	2.0951	84.14	0.8551	34.34	0.010	0.40	30.27	1215.66	6.07	243.78
7088	2.43	0.8201	33.75	2.0373	83.84	1.2873	52.98	0.017	0.70	25.54	1051.03	5.36	220.58
7089	2.48	0.7880	31.77	1.8213	73.44	1.2863	51.87	0.012	0.48	24.77	998.79	4.88	196.77
7090	2.66	0.9071	34.10	2.3195	87.20	1.0257	38.56	0.017	0.64	32.77	1231.95	6.34	238.34

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 7070 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

b. Rat 7070 had a mass on the prostate; values excluded from group averages and statistical analyses. See the individual necropsy observations table (Table D23).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 9): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 3						3.0 MG/KG/DAY			
7061	2.46	0.048	1.95	1.14	46.34	0.050a	2.03	2.05	83.33
7062	2.55	0.054	2.12	1.32	51.76	0.050	1.96	2.32	90.98
7063	2.59	0.074	2.86	1.48	57.14	0.044	1.70	2.21	85.33
7064	2.41	0.074	3.07	1.69	70.12	0.046	1.91	2.22	92.12
7065	2.46	0.062	2.52	1.29	52.44	0.046	1.87	1.89	76.83
7066	2.46	0.072	2.93	0.84	34.15	0.040	1.63	1.84	74.80
7067	2.39	0.065	2.72	1.21	50.63	0.048	2.01	2.11	88.28
7068	2.41	0.061	2.53	0.94	39.00	0.035	1.45	1.82	75.52
7069	2.27	0.046	2.03	1.00	44.05	0.040	1.76	1.92	84.58
7070	2.39	0.102	4.27	1.24	51.88	0.041	1.72	2.39	100.00
7071	2.42	0.077	3.18	1.34	55.37	0.041	1.69	2.18	90.08
7072	2.24	0.068	3.04	1.15	51.34	0.036	1.61	1.83	81.70
7073	2.72	0.071	2.61	1.04	38.24	0.051	1.88	1.98	72.79
7074	2.45	0.061	2.49	0.96	39.18	0.040	1.63	1.76	71.84
7075	2.41	0.090	3.73	1.10	45.64	0.046	1.91	1.93	80.08
7076	2.48	0.089	3.59	1.09	43.95	0.048	1.94	2.28	91.94
7077	2.38	0.099	4.16	1.00	42.02	0.037	1.55	2.37	99.58
7078	2.40	0.068	2.83	0.85	35.42	0.039	1.62	2.06	85.83
7079	2.46	0.085	3.46	1.21	49.19	0.046	1.87	1.80	73.17
7080	2.63	0.085	3.23	0.98	37.26	0.035	1.33	1.93	73.38
7081	2.58	0.071	2.75	1.15	44.57	0.045	1.74	1.84	71.32
7082	2.29	0.069	3.01	1.02	44.54	0.040	1.75	1.97	86.03
7083	2.38	0.069	2.90	0.95	39.92	0.041	1.72	1.98	83.19
7084	2.47	0.079	3.20	1.05	42.51	0.042	1.70	1.89	76.52
7085	2.53	0.069	2.73	1.29	50.99	0.044	1.74	2.05	81.03
7086	2.50	0.080	3.20	1.09	43.60	0.050	2.00	2.24	89.60
7087	2.49	0.066	2.65	0.94	37.75	0.048	1.93	2.21	88.76
7088	2.43	0.086	3.54	1.09	44.86	0.046	1.89	1.86	76.54
7089	2.48	0.075	3.02	1.11	44.76	0.044	1.77	1.79	72.18
7090	2.66	0.085	3.20	1.19	44.74	0.048	1.80	2.61	98.12

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 10): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS LEFT ABS. WT.	EPIDIDYMIS LEFT REL. % BRW	CAUDA EPIDIDYMIS LEFT ABS. WT.	CAUDA EPIDIDYMIS LEFT REL. % BRW	TESTIS LEFT ABS. WT.	TESTIS LEFT REL. % BRW	L. TESTIS MINUS TUNICA ALBUGINEA ABS. WT.	L. TESTIS MINUS TUNICA ALBUGINEA REL. % BRW	SEMINAL VESICLES WITH FLUID ABS. WT.	SEMINAL VESICLES WITH FLUID REL. % BRW	SEMINAL VESICLES WITHOUT FLUID ABS. WT.	SEMINAL VESICLES WITHOUT FLUID REL. % BRW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
7091	2.40	0.6800	28.33	0.3301	13.75	1.7752	73.97	1.5815	65.90	1.7017	70.90	0.7024	29.27
7092	2.36	0.8367	35.45	0.4154	17.60	2.2085	93.58	2.0061	85.00	2.4775	104.98	0.9498	40.24
7093	2.33	0.7713	33.10	0.3530	15.15	2.1294	91.39	1.8944	81.30	1.3061	56.06	0.6941	29.79
7094	2.40	0.8587	35.78	0.4311	17.96	2.0844	86.85	1.9257	80.24	1.5269	63.62	0.8478	35.32
7095	2.58	0.7470	28.95	0.3547	13.75	1.9026	73.74	1.7522	67.91	2.1195	82.15	0.8421	32.64
7096	2.48	0.8183	33.00	0.3878	15.64	1.9596	79.02	1.7270	69.64	2.1085	85.02	0.8050	32.46
7097	2.43	0.7786	32.04	0.3505	14.42	1.7652	72.64	1.5107	62.17	1.8175	74.79	0.9737	40.07
7098	2.42	0.7077	29.24	0.3198	13.21	1.7003	70.26	1.5796	65.27	1.5735	65.02	0.7207	29.78
7099	2.33	0.7967	34.19	0.3095	13.28	1.9102	81.98	1.7531	75.24	1.4605	62.68	0.6413	27.52
7100	2.25	0.7962	35.39	0.3360	14.93	1.9300	85.78	1.5701	69.78	1.5234	67.71	0.7226	32.12
7101	2.22	0.7818	35.22	0.3725	16.78	1.9017	85.66	1.6666	75.07	1.8136	81.69	0.9234	41.59
7102	2.42	0.7969	32.93	0.3700	15.29	2.0373	84.18	1.8988	78.46	2.5812	106.66	0.8426	34.82
7103	2.55	0.8255	32.37	0.3992	15.65	2.2385	87.78	2.0786	81.51	2.5472	99.89	0.9221	36.16
7104	2.24	0.7403	33.05	0.3627	16.19	1.7728	79.14	1.6184	72.25	1.6154	72.12	0.6505	29.04
7105	2.22	0.7991	36.00	0.4134	18.62	1.8017	81.16	1.6808	75.71	1.4829	66.80	0.6906	31.11
7106	2.42	0.7948	32.84	0.3676	15.19	1.9146	79.12	1.7769	73.42	1.9225	79.44	0.7150	29.54
7107	2.27	0.8376	36.90	0.4199	18.50	2.1362	94.10	1.9493	85.87	1.4685	64.69	0.5301	23.35
7108	2.34	0.7336	31.35	0.3265	13.95	1.8882	80.69	1.7107	73.11	1.8585	79.42	0.8910	38.08
7109	2.45	0.7755	31.65	0.3613	14.75	1.9750	80.61	1.7624	71.93	1.7178	70.11	0.7254	29.61
7110	2.39	0.9176	38.39	0.4214	17.63	2.1166	88.56	1.9304	80.77	1.8954	79.30	0.7961	33.31
7111a	2.27	0.95	-----	------	-----	2.03	-----	------	-----	2.57	-----	2.47	-----
7112	2.50	0.8088	32.35	0.4357	17.43	1.8624	74.50	1.6500	66.00	1.7726	70.90	0.7865	31.46
7113b	2.27	0.96	-----	------	-----	2.02	-----	------	-----	------	-----	------	-----
7114	2.27	0.7934	34.95	0.3412	15.03	1.7973	79.18	1.5337	67.56	1.5478	68.18	0.6664	29.36
7115c	2.32	1.39d	-----	------	-----	2.00	-----	------	-----	------	-----	------	-----
7116	2.32	0.7843	33.81	0.3635	15.67	1.7330	74.70	1.5965	68.81	1.5472	66.69	0.7295	31.44
7117	2.37	0.7859	33.16	0.3531	14.90	1.9983	84.32	1.8430	77.76	1.6202	68.36	0.7894	33.31
7118	2.43	0.8899	36.62	0.4132	17.00	2.3107	95.09	2.1566	88.75	1.6495	67.88	0.6737	27.72
7119	2.50	0.8040	32.16	0.4255	17.02	2.1360	85.44	1.9937	79.75	1.3671	54.68	0.6641	26.56
7120	2.57	0.8733	33.98	0.4563	17.75	2.1226	82.59	1.9477	75.78	2.0683	80.48	0.9587	37.30

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Rat 7111 was found dead on day 131 postweaning; values excluded from group averages and statistical analyses.
b. Rat 7113 was found dead on day 95 postweaning; values excluded from group averages and statistical analyses.
c. Rat 7115 was found dead on day 82 postweaning; values excluded from group averages and statistical analyses.
d. Paired weight.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 11): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	EPIDIDYMIS RIGHT ABS. WT.	EPIDIDYMIS RIGHT REL. % BRW	TESTIS RIGHT ABS. WT.	TESTIS RIGHT REL. % BRW	PROSTATE ABS. WT.	PROSTATE REL. % BRW	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
7091	2.40	0.7717	32.15	1.8935	78.90	1.1158	46.49	0.017	0.71	25.76	1073.33	4.70	195.83
7092	2.36	0.8470	35.89	2.1651	91.74	1.0327	43.76	0.014	0.59	30.11	1275.85	5.33	225.85
7093	2.33	0.7370	31.63	2.1044	90.32	0.7754a	33.28	0.018	0.77	23.50	1008.58	5.01	215.02
7094	2.40	0.8580	35.75	2.1012	87.55	1.0447	43.53	0.017	0.71	21.28	886.67	5.20	216.67
7095	2.58	0.7234	28.04	1.8432	71.44	1.1550a	44.77	0.018	0.70	b	------	4.86	188.37
7096	2.48	0.7607	30.67	1.9434	78.36	0.9803	39.53	0.017	0.68	27.75	1118.95	5.47	220.56
7097	2.43	0.8172	33.63	1.8017	74.14	0.9268	38.14	0.014	0.58	21.19	872.02	4.29	176.54
7098	2.42	0.7043	29.10	1.6636	68.74	0.8842	36.54	0.018	0.74	28.76	1188.43	4.86	200.83
7099	2.33	0.7859	33.73	1.8676	80.15	0.9801	42.06	0.017	0.73	22.59	969.53	4.40	188.84
7100	2.25	0.7150	31.78	1.7217	76.52	0.9438	41.95	0.013	0.58	23.84	1059.56	4.97	220.89
7101	2.22	0.7949	35.81	1.9163	86.32	0.8236	37.10	0.015	0.68	23.09	1040.09	5.08	228.83
7102	2.42	0.7870	32.52	2.0790	85.91	1.1192	46.25	0.012	0.50	17.70	731.40	4.27	176.45
7103	2.55	0.8704	34.13	2.2502	88.24	1.6967	66.54	0.015	0.59	25.03	981.57	5.76	225.88
7104	2.24	0.7665	34.22	1.7290	77.19	1.3211	58.98	0.014	0.62	22.48	1003.57	4.83	215.62
7105	2.22	0.7666	34.53	1.8193	81.95	1.2648	56.97	0.012	0.54	22.78	1026.13	5.17	232.88
7106	2.42	0.7615	31.47	1.8472	76.33	1.5348	63.42	0.017	0.70	30.16	1246.28	5.99	247.52
7107	2.27	0.8659	38.14	2.1729	95.72	1.2258	54.00	0.016	0.70	23.78	1047.58	5.21	229.52
7108	2.34	0.7685	32.84	1.8461	78.89	1.6802	71.80	0.018	0.77	23.46	1002.56	5.44	232.48
7109	2.45	0.7792	31.80	1.9594	79.98	1.5263	62.30	0.022	0.90	27.74	1132.24	4.98	203.26
7110	2.39	0.8816	36.89	2.0653	86.41	1.3031	54.52	0.017	0.71	29.37	1228.87	5.30	221.76
7111c	2.27	1.02	-----	2.02	-----	------	-----	0.021	----	22.41	-------	5.20	------
7112	2.50	0.7988	31.95	1.8553	74.21	1.6648	66.59	0.015	0.60	26.08	1043.20	4.89	195.60
7113d	2.27	0.90	-----	2.02	-----	------	-----	0.014	----	29.18	-------	5.64	------
7114	2.27	0.7754	34.16	1.7687	77.92	1.1245	49.54	0.014	0.62	23.82	1049.34	4.12	181.50
7115e	2.32	------	-----	1.90	-----	------	-----	0.017	----	34.80	-------	5.66	------
7116	2.32	0.8003	34.50	1.7364	74.84	1.2568	54.17	0.014	0.60	27.11	1168.53	5.63	242.67
7117	2.37	0.8168	34.46	2.0360	85.91	1.3767	58.09	0.015	0.63	26.07	1100.00	5.13	216.46
7118	2.43	0.8567	35.26	2.3567	96.98	1.6657	68.55	0.015	0.62	29.24	1203.29	5.56	228.81
7119	2.50	0.7979	31.92	2.1306	85.22	0.9281	37.12	0.016	0.64	25.80	1032.00	5.61	224.40
7120	2.57	0.8491	33.04	2.0252	78.80	1.4901	57.98	0.014	0.54	28.91	1124.90	5.99	233.07

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Damaged during processing (weight not affected).
b. Value was not recorded.
c. Rat 7111 was found dead on day 131 postweaning; values excluded from group averages and statistical analyses.
d. Rat 7113 was found dead on day 95 postweaning; values excluded from group averages and statistical analyses.
e. Rat 7115 was found dead on day 82 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D25 (PAGE 12): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

RAT NUMBER	BRAIN WEIGHT	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS WT.	SPLEEN REL. % BRW	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 4						30.0 MG/KG/DAY			
7091	2.40	0.056	2.33	1.00	41.67	0.081	3.38	1.79	74.58
7092	2.36	0.063	2.67	1.32	55.93	0.068a	2.88	2.07	87.71
7093	2.33	0.076	3.26	1.16	49.78	0.058	2.49	1.71	73.39
7094	2.40	0.071	2.96	0.92	38.33	0.061	2.54	2.12	88.33
7095	2.58	0.066	2.56	1.11	43.02	0.064	2.48	1.95	75.58
7096	2.48	0.075	3.02	1.13	45.56	0.066	2.66	2.18	87.90
7097	2.43	0.065	2.67	1.06	43.62	0.053	2.18	2.09	86.01
7098	2.42	0.064	2.64	1.39	57.44	0.056	2.31	1.80	74.38
7099	2.33	0.081	3.48	1.10	47.21	0.042	1.80	1.61	69.10
7100	2.25	0.056	2.49	0.96	42.67	0.060	2.67	1.79	79.56
7101	2.22	0.067	3.02	0.85	38.29	0.067	3.02	1.84	82.88
7102	2.42	0.061	2.52	1.04	42.98	0.036	1.49	1.90	78.51
7103	2.55	0.061	2.39	1.10	43.14	0.065	2.55	2.03	79.61
7104	2.24	0.080	3.57	0.97	43.30	0.044	1.96	1.78	79.46
7105	2.22	0.090	4.05	1.04	46.85	0.045	2.03	1.75	78.83
7106	2.42	0.068	2.81	1.24	51.24	0.087	3.60	2.11	87.19
7107	2.27	0.083	3.66	0.93	40.97	0.052	2.29	1.74	76.65
7108	2.34	0.090	3.85	1.04	44.44	0.081	3.46	1.85	79.06
7109	2.45	0.075	3.06	1.01	41.22	0.073	2.98	1.85	75.51
7110	2.39	0.091	3.81	1.14	47.70	0.026b	1.09b	2.04	85.36
7111c	2.27	0.067	----	0.84	----	0.082	----	2.01	-----
7112	2.50	0.057	2.28	1.16	46.40	0.062	2.48	2.09	83.60
7113d	2.27	0.073	----	1.02	----	0.063	----	2.11	-----
7114	2.27	0.068	3.00	0.94	41.41	0.069	3.04	1.71	75.33
7115e	2.32	0.079	----	1.02	----	0.073	----	2.19	-----
7116	2.32	0.086	3.71	1.22	52.59	0.077	3.32	2.21	95.26
7117	2.37	0.074	3.12	1.12	47.26	0.074	3.12	2.21	93.25
7118	2.43	0.064	2.63	1.10	45.27	0.062	2.55	2.20	90.53
7119	2.50	0.063	2.52	1.08	43.20	0.070	2.80	2.10	84.00
7120	2.57	0.072	2.80	1.14	44.36	0.065	2.53	2.28	88.72

ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Damaged during processing (weight not affected).
b. Damaged during processing (weight affected); values excluded from group averages and statistical analyses.
c. Rat 7111 was found dead on day 131 postweaning; values excluded from group averages and statistical analyses.
d. Rat 7113 was found dead on day 95 postweaning; values excluded from group averages and statistical analyses.
e. Rat 7115 was found dead on day 82 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D26 (PAGE 1): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 1 — 0 (CARRIER) MG/KG/DAY

RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
7001	192	74	69	261	163	9.4	1399.1	43	2.5	153.5
7002	438	76	142	580	96	5.6	826.5	48	2.8	182.1
7003	588	90	64	652	182	10.5	1339.6	26	1.5	90.3
7004d	0	0	6	6	2	0.1	41.3	16	0.9	279.7
7005	360	76	113	473	237	13.7	1722.5	34	2.0	120.9
7006	178	56	142	320	146	8.4	1422.0	26	1.5	100.5
7007	281	75	92	373	247	14.3	2205.2	33	1.9	107.4
7008	447	85	77	524	254	14.7	1800.9	27	1.6	97.2
7009	211	74	73	284	243	14.1	2466.4	33	1.9	112.8
7010	669	83	133	802	183	10.6	1470.5	29	1.7	97.4
7011	235	81	54	289	165	9.5	1391.5	29	1.7	107.8
7012	346	70	145	491	234	13.5	2334.1	35	2.0	110.2
7013	657	85	116	773	341	19.7	2644.5	4	0.2	12.6
5450	711	80	180	891	169	9.8	1433.6	33	1.9	117.1
7015	559	85	100	659	157	9.1	1316.4	21	1.2	77.0
7016	274	69	122	396	310	17.9	2591.7	26	1.5	95.2
7017	654	83	131	785	195	11.3	1500.2	37	2.1	135.5
7018	351	84	66	417	178	10.3	1418.5	33	1.9	122.7
7019	332	76	107	439	225	13.0	2148.1	27	1.6	115.0
7020	326	69	149	475	144	8.3	1033.6	59	3.4	177.8
7021	626	86	98	724	155	9.0	1042.7	20	1.2	69.7
7022	456	74	161	617	107	6.2	834.3	44	2.5	159.3
7023	464	87	71	535	190	11.0	1473.5	46	2.7	142.0
7024	625	79	166	791	158	9.1	1151.3	78	4.5	207.4
7025	347	73	128	475	125	7.2	1092.4	35	2.0	130.6
7026	289	78	82	371	169	9.8	1384.9	26	1.5	89.9
7027	490	85	85	575	248	14.3	1897.9	44	2.5	142.5
7028	452	73	169	621	187	10.8	1494.3	66	3.8	209.9
7029	309	62	193	502	101	5.8	936.4	33	1.9	128.2
7030	329	70	138	467	111	6.4	991.0	67	3.9	212.9

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table D24 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

d. Rat 7004 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D26 (PAGE 2): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
7031	162	72	62	224	176	10.2	1414.2	15	0.9	45.6
7032	455	81	105	560	171	9.9	1242.8	38	2.2	110.4
7033	192	71	79	271	199	11.5	1560.0	23	1.3	80.1
7034	475	71	194	669	131	7.6	1013.2	27	1.6	86.1
7035	326	78	92	418	226	13.1	1594.5	34	2.0	101.7
7036	314	80	79	393	224	13.0	1810.0	52	3.0	159.2
7037	311	78	87	398	286	16.5	2154.5	40	2.3	124.8
7038	537	77	161	698	256	14.8	2204.0	29	1.7	99.3
7039	277	68	129	406	329	19.0	2524.4	33	1.9	121.4
7040	438	80	108	546	216	12.5	1899.2	39	2.3	120.4
7041	212	70	89	301	199	11.5	1683.2	15	0.9	52.8
7042	436	90	48	484	292	16.9	2513.9	8	0.5	32.3
7043	423	78	117	540	265	15.3	2100.2	41	2.4	121.5
7044	523	92	48	571	205	11.9	1382.3	39	2.3	137.2
7045	620	82	133	753	179	10.4	1341.4	17	1.0	58.5
7046	236	63	136	372	293	17.0	2278.4	21	1.2	67.4
7047	339	85	58	397	325	18.8	2254.5	15	0.9	45.9
7048	222	79	59	281	84	4.9	843.7	39	2.3	144.7
7049	568	83	114	682	113	6.5	1089.6	44	2.5	180.0
7050	175	60	115	290	254	18.4	2005.3	61	3.5	189.2
7051	592	77	174	766	126	7.3	1088.0	38	2.2	130.1
7052	785	84	147	932	176	10.2	1308.8	39	2.3	128.8
7053	316	74	110	426	292	16.9	1968.9	54	3.1	182.5
7054	167	61	107	274	257	14.9	1891.7	53	3.1	152.7
7055	400	68	192	592	91	5.3	849.2	44	2.5	147.8
7056	517	80	131	648	121	7.0	1035.6	43	2.5	167.9
7057	419	85	72	491	100	5.8	747.5	49	2.8	162.5
7058	687	88	98	785	201	11.6	1498.5	25	1.4	73.6
7059	542	81	129	671	127	7.3	959.2	32	1.9	98.9
7060	345	70	146	491	112	6.5	892.5	61	3.5	192.0

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table D24 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D26 (PAGE 3): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 3			3.0 MG/KG/DAY							
RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
7061	336	74	117	453	190	11.0	1531.0	32	1.9	96.9
7062	257	74	92	349	159	9.2	1398.0	26	1.5	83.3
7063	212	64	117	329	142	8.2	1229.8	18	1.0	65.8
7064	169	68	80	249	196	11.3	1723.3	43	2.5	141.8
7065	246	77	75	321	202	11.7	1240.6	38	2.2	105.9
7066	311	74	108	419	177	10.2	1296.2	24	1.4	90.3
7067	274	64	153	427	306	17.7	2445.2	24	1.4	77.6
7068	215	77	66	281	262	15.2	2468.7	27	1.6	100.8
7069	622	80	160	782	195	11.3	1532.8	34	2.0	118.2
7070d	0	0	8	8	6	0.3	92.8	0	0.0	0.0
7071	331	76	103	434	168	9.7	1717.2	24	1.4	83.3
7072	162	72	64	226	286	16.5	2224.0	38	2.2	114.5
7073	201	64	113	314	89	5.1	770.8	33	1.9	111.8
7074	558	82	125	683	168	9.7	1327.8	31	1.8	93.4
7075	834	91	83	917	138	8.0	1078.9	14	0.8	42.8
7076	274	87	42	316	164	9.5	1379.1	37	2.1	115.1
7077	338	80	86	424	144	8.3	980.1	45	2.6	148.1
7078	699	92	58	757	127	7.3	1043.7	48	2.8	139.1
7079	312	81	71	383	146	8.4	1456.3	32	1.9	120.6
7080	398	71	163	561	169	9.8	1400.8	47	2.7	149.2
7081	446	77	130	576	157	9.1	1170.5	28	1.6	96.9
7082	461	85	84	545	147	10.6	1436.6	27	1.6	95.6
7083	285	71	115	400	196	11.3	1633.9	42	2.4	160.3
7084	335	79	90	425	151	8.7	1456.0	29	1.7	103.0
7085	638	73	231	869	130	7.5	924.0	34	2.0	108.5
7086	408	81	95	503	190	11.0	1380.9	39	2.3	128.3
7087	346	78	100	446	239	13.8	1942.0	57	3.3	176.4
7088	425	68	200	625	155	9.0	1088.3	31	1.8	96.3
7089	704	79	185	889	315	18.2	2139.0	28	1.6	97.5
7090	742	77	217	959	150	8.7	957.9	40	2.3	109.3

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table D24 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

d. Rat 7070 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D26 (PAGE 4): CAUDA EPIDIDYMAL SPERM MOTILITY, COUNT, DENSITY AND SPERMATID COUNT - INDIVIDUAL DATA - F1 GENERATION MALE RATS

DOSAGE GROUP 4 — 30.0 MG/KG/DAY

RAT NUMBER	NUMBER MOTILE	MOTILE PERCENT	STATIC COUNT (NONMOTILE)	TOTAL COUNT a	SPERM COUNT b	SPERM CONCENTRATION	SPERM DENSITY c	SPERMATID COUNT	SPERMATID CONCENTRATION	SPERMATID DENSITY
7091	355	70	153	508	124	7.2	1087.0	25	1.4	91.4
7092	245	76	76	321	295	17.1	2056.3	33	1.9	95.2
7093	540	72	210	750	190	11.0	1557.0	51	3.7	194.7
7094	296	84	58	354	271	15.7	1818.9	28	1.6	84.1
7095	425	78	120	545	190	11.0	1548.2	27	1.6	89.2
7096	249	79	65	314	224	13.0	1670.0	40	2.3	134.0
7097	471	82	102	573	213	12.3	1760.4	22	1.3	84.2
7098	647	81	154	801	120	6.9	1084.8	18	1.0	65.9
7099	467	89	56	523	135	7.8	1259.7	25	1.4	82.5
7100	333	86	56	389	245	14.2	2109.3	16	0.9	59.0
7101	397	85	69	466	215	12.4	1671.9	18	1.0	62.5
7102	249	80	62	311	273	15.8	2134.4	18	1.0	54.8
7103	431	78	125	556	228	13.2	1653.0	14	0.8	39.0
7104	638	88	83	721	132	7.6	1051.9	15	0.9	53.6
7105	562	83	114	676	103	6.0	721.4	18	1.0	61.9
7106	495	88	69	564	80	4.6	628.9	31	1.8	100.9
7107	212	75	70	282	136	7.9	936.7	4	0.2	11.9
7108	437	78	126	563	98	5.7	869.6	38	2.2	128.5
7109	444	68	207	651	140	8.1	1121.8	38	2.2	124.8
7110	836	85	144	980	283	16.4	1944.5	43	2.5	128.9
7111	FOUND DEAD ON DAY 131 POSTWEANING									
7112	605	81	146	751	159	9.2	1054.9	37	2.1	129.7
7113	FOUND DEAD ON DAY 95 POSTWEANING									
7114	537	75	182	719	152	8.8	1289.4	48	2.8	181.0
7115	FOUND DEAD ON DAY 82 POSTWEANING									
7116	467	84	89	556	139	8.0	1104.6	26	1.5	94.2
7117	293	75	100	393	195	11.3	1598.0	42	2.4	131.8
7118	552	87	83	635	225	13.0	1575.9	40	2.3	107.3
7119	508	87	79	587	114	6.6	774.1	44	2.5	127.7
7120	433	82	93	526	154	8.9	976.9	39	2.3	115.8

a. Sum of number motile and static count.

b. Sperm count used in the calculation of sperm density.

c. The sperm density is calculated by dividing the sperm count by the volume in the image area (34.3×10^{-6}), multiplying by 2 (dilution factor) and multiplying by 10^{-6} to obtain the sperm concentration. The calculated sperm concentration value (rounded to 1 decimal place) is multiplied by 50 (volume) and divided by the weight of the left cauda epididymis (see Table D24 for the weight of the left cauda epididymis, rounded to 3 decimal places) to obtain the sperm density. The calculated value will vary by approximately 0.8% from the Computer Automated Sperm Analysis because the digital image evaluated is slightly smaller (4 pixels) than the actual field causing a slight underestimate of the actual volume and an overestimate of the concentration.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D27 (PAGE 1): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

ANIMAL NUMBER	NORMAL	NO HOOK	EXCES-SIVE HOOK	AMOR-PHOUS	PIN HEAD	DETACHED HEAD	NO HEAD	BANANA	COILED FLAGEL-LUM	BENT FLAGEL-LUM	BENT FLAGEL-LUM TIP	BROKEN FLAGEL-LUM	PERCENT ABNORMAL
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
7001	194	0	0	0	0	3	2	0	0	0	0	1	3.0
7002	168	2	0	0	0	25	3	0	0	0	0	2	16.0
7003	187	0	0	0	0	8	3	0	0	0	0	2	6.5
7004a	9	0	0	0	0	1	8	0	0	0	0	0	50.0
7005	196	0	0	0	0	4	0	0	0	0	0	0	2.0
7006	195	0	0	0	0	4	1	0	0	0	0	0	2.5
7007	192	0	0	0	0	4	3	0	0	0	0	1	4.0
7008	192	0	0	0	0	7	1	0	0	0	0	0	4.0
7009	181	1	0	0	0	10	7	0	0	0	0	1	9.5
7010	193	0	0	0	0	7	0	0	0	0	0	0	3.5
7011	177	0	0	0	0	20	3	0	0	0	0	0	11.5
7012	188	0	0	0	0	9	3	0	0	0	0	0	6.0
7013	195	0	0	0	0	3	2	0	0	0	0	0	2.5
5450	188	1	0	0	0	9	1	0	1	0	0	0	6.0
7015	192	1	0	0	0	4	3	0	0	0	0	0	4.0
7016	195	0	0	0	0	1	2	1	0	0	0	1	2.5
7017	187	1	0	0	0	8	3	0	0	0	0	1	6.5
7018	188	0	0	0	0	8	4	0	0	0	0	0	6.0
7019	186	1	0	0	0	7	3	0	0	0	0	3	7.0
7020	192	0	0	0	0	4	3	0	0	0	0	1	4.0
7021	190	0	0	0	0	9	1	0	0	0	0	0	5.0
7022	196	0	0	0	0	4	0	0	0	0	0	0	2.0
7023	196	0	0	0	0	4	0	0	0	0	0	0	2.0
7024	184	0	0	0	0	14	2	0	0	0	0	0	8.0
7025	189	0	0	0	0	9	2	0	0	0	0	0	5.5
7026	191	0	0	0	0	9	0	0	0	0	0	0	4.5
7027	184	0	0	0	0	12	4	0	0	0	0	0	8.0
7028	192	0	0	0	0	4	4	0	0	0	0	0	4.0
7029	190	0	0	0	0	9	1	0	0	0	0	0	5.0
7030	197	0	0	0	0	9	3	0	0	0	0	1	6.2

a. Rat 7004 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D27 (PAGE 2): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

ANIMAL NUMBER	NORMAL	NO HOOK	EXCES-SIVE HOOK	AMOR-PHOUS	PIN HEAD	DETACHED HEAD	NO HEAD	BANANA	COILED FLAGEL-LUM	BENT FLAGEL-LUM	BENT FLAGEL-LUM TIP	BROKEN FLAGEL-LUM	PERCENT ABNORMAL
DOSAGE GROUP 2						0.3 MG/KG/DAY							
7031	190	0	0	0	0	8	1	0	0	0	0	1	5.0
7032	183	0	0	0	0	14	2	0	0	0	0	1	8.5
7033	194	0	0	0	0	5	1	0	0	0	0	0	3.0
7034	191	1	0	0	0	3	5	0	0	0	0	0	4.5
7035	193	0	0	1	0	4	1	0	0	0	0	1	3.5
7036	190	0	0	0	0	6	3	0	1	0	0	0	5.0
7037	181	0	0	0	0	9	7	1	0	0	0	2	9.5
7038	192	0	0	0	0	5	3	0	0	0	0	0	4.0
7039	187	0	0	0	0	8	3	0	0	0	0	2	6.5
7040	189	0	0	0	0	9	1	0	1	0	0	0	5.5
7041	185	0	0	0	0	9	3	0	0	0	0	3	7.5
7042	196	0	0	0	0	3	1	0	0	0	0	0	2.0
7043	189	0	0	0	0	4	7	0	0	0	0	0	5.5
7044	190	0	0	0	0	8	1	0	0	0	0	1	5.0
7045	195	0	0	0	0	4	0	1	0	0	0	0	2.5
7046	186	2	0	0	0	7	4	0	0	0	0	1	7.0
7047	188	2	0	1	0	7	2	0	0	0	0	0	6.0
7048	182	0	0	0	0	13	5	0	0	0	0	0	9.0
7049	188	0	0	0	0	10	2	0	0	0	0	0	6.0
7050	189	1	0	0	0	8	2	0	0	0	0	0	5.5
7051	194	0	0	0	0	4	2	0	0	0	0	0	3.0
7052	191	0	0	0	0	6	3	0	0	0	0	0	4.5
7053	182	0	0	0	0	18	0	0	0	0	0	0	9.0
7054	193	0	0	0	0	5	1	0	0	0	0	1	3.5
7055	189	0	0	0	0	9	1	0	0	0	0	1	5.5
7056	191	0	0	0	0	6	3	0	0	0	0	0	4.5
7057	174	0	0	0	0	18	7	0	0	0	0	1	13.0
7058	192	0	0	0	0	4	4	0	0	0	0	0	4.0
7059	185	0	0	0	0	13	2	0	0	0	0	0	7.5
7060	195	0	0	0	0	3	1	0	0	0	0	1	2.5

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D27 (PAGE 3): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

ANIMAL NUMBER	NORMAL	NO HOOK	EXCES-SIVE HOOK	AMOR-PHOUS	PIN HEAD	DETACHED HEAD	NO HEAD	BANANA	COILED FLAGEL-LUM	BENT FLAGEL-LUM	BENT FLAGEL-LUM TIP	BROKEN FLAGEL-LUM	PERCENT ABNORMAL
DOSAGE GROUP 3						3.0 MG/KG/DAY							
7061	194	0	0	0	0	4	2	0	0	0	0	0	3.0
7062	190	1	0	0	0	2	3	0	1	0	0	3	5.0
7063	185	0	0	0	0	10	5	0	0	0	0	0	7.5
7064	188	0	0	0	0	8	3	0	0	0	0	1	6.0
7065	188	0	0	0	0	8	4	0	0	0	0	0	6.0
7066	193	0	0	0	0	4	2	1	0	0	0	0	3.5
7067	195	0	0	0	0	3	2	0	0	0	0	0	2.5
7068	191	0	0	0	0	5	4	0	0	0	0	0	4.5
7069	193	0	0	0	0	6	1	0	0	0	0	0	3.5
7070a	11	0	0	0	0	2	8	0	0	0	0	0	47.6
7071	191	0	0	0	0	6	2	0	0	1	0	0	4.5
7072	186	1	0	0	0	11	2	0	0	0	0	0	7.0
7073	195	0	0	0	0	4	1	0	0	0	0	0	2.5
7074	191	0	0	0	0	6	3	0	0	0	0	0	4.5
7075	197	0	0	0	0	2	1	0	0	0	0	0	1.5
7076	191	0	0	0	0	7	2	0	0	0	0	0	4.5
7077	173	0	0	0	0	20	7	0	0	0	0	0	13.5
7078	193	0	0	0	0	7	0	0	0	0	0	0	3.5
7079	188	0	0	0	0	10	2	0	0	0	0	0	6.0
7080	188	0	0	0	0	9	2	1	0	0	0	0	6.0
7081	185	0	0	0	0	11	3	0	0	0	0	1	7.5
7082	196	0	0	0	0	2	2	0	0	0	0	0	2.0
7083	191	0	0	0	0	6	3	0	0	0	0	0	4.5
7084	195	0	0	0	0	3	2	0	0	0	0	0	2.5
7085	190	0	0	0	0	8	1	1	0	0	0	0	5.0
7086	192	0	0	0	0	7	1	0	0	0	0	0	4.0
7087	190	0	0	0	0	5	3	0	0	0	0	2	5.0
7088	185	0	0	0	0	14	1	0	0	0	0	0	7.5
7089	184	0	0	0	0	10	4	1	0	0	0	1	8.0
7090	195	0	0	0	0	3	2	0	0	0	0	0	2.5

a. Rat 7070 had small and flaccid epididymides and testes; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE D27 (PAGE 4): CAUDA EPIDIDYMAL SPERM MORPHOLOGY - INDIVIDUAL DATA - F1 GENERATION MALE RATS

ANIMAL NUMBER	NORMAL	NO HOOK	EXCES-SIVE HOOK	AMOR-PHOUS	PIN HEAD	DETACHED HEAD	NO HEAD	BANANA	COILED FLAGEL-LUM	BENT FLAGEL-LUM	BENT FLAGEL-LUM TIP	BROKEN FLAGEL-LUM	PERCENT ABNORMAL
DOSAGE GROUP 4						30.0 MG/KG/DAY							
7091	190	0	0	0	0	8	2	0	0	0	0	0	5.0
7092	174	0	0	0	0	22	3	0	0	0	0	1	13.0
7093	182	0	0	0	0	17	1	0	0	0	0	0	9.0
7094	194	0	0	0	0	6	0	0	0	0	0	0	3.0
7095	189	0	0	0	0	7	4	0	0	0	0	0	5.5
7096	190	0	0	1	0	4	4	0	0	0	0	1	5.0
7097	184	0	0	0	0	11	3	0	0	0	0	2	8.0
7098	193	0	0	0	1	6	0	0	0	0	0	0	3.5
7099	192	0	0	0	0	4	4	0	0	0	0	0	4.0
7100	192	0	0	0	0	7	1	0	0	0	0	0	4.0
7101	188	2	0	0	0	0	6	4	0	0	0	0	6.0
7102	196	0	0	0	0	1	3	0	0	0	0	0	2.0
7103	188	0	0	0	0	8	4	0	0	0	0	0	6.0
7104	181	0	0	0	0	13	6	0	0	0	0	0	9.5
7105	183	0	0	0	0	11	5	0	0	0	0	1	8.5
7106	194	0	0	0	0	2	3	0	0	0	0	1	3.0
7107	190	0	0	0	0	7	2	0	0	0	0	1	5.0
7108	188	0	0	0	0	5	6	0	0	0	0	1	6.0
7109	181	0	0	0	0	10	5	0	0	0	0	1	8.1
7110	188	1	0	0	0	8	3	0	0	0	0	0	6.0
7111	FOUND DEAD ON DAY 131 POSTWEANING												
7112	192	0	0	0	0	6	2	0	0	0	0	0	4.0
7113	FOUND DEAD ON DAY 95 POSTWEANING												
7114	193	0	0	0	0	5	1	0	0	0	0	1	3.5
7115	FOUND DEAD ON DAY 82 POSTWEANING												
7116	188	0	0	0	0	8	3	0	0	0	0	1	6.0
7117	195	0	0	0	0	5	0	0	0	0	0	0	2.5
7118	191	0	0	0	0	8	0	1	0	0	0	0	4.5
7119	181	0	0	0	0	17	2	0	0	0	0	0	9.5
7120	181	0	1	0	0	12	4	0	0	1	0	1	9.5

APPENDIX E

REPORT TABLES - F1 GENERATION FEMALE RATS

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E1 (PAGE 1): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)a		0 (CARRIER)	0.3	3.0	30.0
POSTWEANING:					
RATS TESTED	N	30	30	30	30
POSTWEANING ACTUAL DOSAGE (MG/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.0	2.9 ± 0.7	30.0 ± 4.2 [29]b
DAYS 8 - 15	MEAN±S.D.	0.0 ± 0.0	0.2 ± 0.0 [29]b	2.6 ± 0.4	25.5 ± 3.6
DAYS 15 - 22	MEAN±S.D.	0.0 ± 0.0	0.3 ± 0.1	2.8 ± 0.6	27.5 ± 4.5 [29]b
DAYS 22 - 29	MEAN±S.D.	0.0 ± 0.0 [28]b	0.3 ± 0.1 [27]b	3.0 ± 0.7 [29]b	29.8 ± 7.9 [26]b
DAYS 29 - 36	MEAN±S.D.	0.0 ± 0.0 [28]b	0.3 ± 0.1 [27]b	3.2 ± 0.8 [29]b	33.1 ± 8.1 [27]b
DAYS 36 - 43	MEAN±S.D.	0.0 ± 0.0 [28]b	0.3 ± 0.1 [26]b	2.8 ± 0.8 [28]b	31.4 ± 9.0 [24]b
DAYS 43 - 50	MEAN±S.D.	0.0 ± 0.0 [27]b	0.3 ± 0.1 [28]b	2.8 ± 0.8 [27]b	28.4 ± 7.1 [25]b
DAYS 50 - 57	MEAN±S.D.	0.0 ± 0.0 [27]b	0.3 ± 0.1 [22]b	2.8 ± 0.7 [23]b	27.5 ± 7.0 [22]b
DAYS 57 - 64c	MEAN±S.D.	0.0 ± 0.0 [25]b	0.3 ± 0.1 [20]b,d	3.0 ± 0.9 [22]b	27.6 ± 8.2 [24]b
DAYS 1 - 64c	MEAN±S.D.	0.0 ± 0.0 [25]b	0.3 ± 0.1 [20]b,d	2.8 ± 0.6 [22]b	27.8 ± 4.8 [24]b

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED

a. The actual dosage was calculated by averaging the concentrations used during each interval then rounding to one decimal place.
b. Excludes values that could not be calculated as well as those that appeared associated with spillage or those associated with spillage.
c. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a water consumption value was recorded for the youngest rats.
d. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E1 (PAGE 2): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)a		0 (CARRIER)	0.3	3.0	30.0
GESTATION:					
RATS TESTED	N	30	29b	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20c	27	28	26d
MATERNAL ACTUAL DOSAGE (MG/KG/DAY)					
DAYS 0 - 7	MEAN±S.D.	0.0 ± 0.0 [14]e	0.2 ± 0.1 [22]e	3.0 ± 0.8 [20]e	26.2 ± 7.1 [17]e
DAYS 7 - 14	MEAN±S.D.	0.0 ± 0.0 [12]e	0.2 ± 0.0 [23]e	3.0 ± 0.7 [21]e	30.4 ± 7.7 [19]e
DAYS 14 - 21	MEAN±S.D.	0.0 ± 0.0 [17]e,f	0.2 ± 0.0	2.7 ± 0.4 [26]f	25.8 ± 5.3 [24]f
DAYS 0 - 21	MEAN±S.D.	0.0 ± 0.0 [17]e,f	0.2 ± 0.0	3.0 ± 0.6 [26]f	28.3 ± 5.8 [24]f

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED

a. The actual dosage was calculated by averaging the concentrations used during each interval then rounding to one decimal place.
b. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
c. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
d. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
e. Excludes values that were associated with spillage or appeared associated with spillage.
f. Excludes values that were not recorded; dam in the process of delivering.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E1 (PAGE 3): CONSUMED DOSAGES (MG/KG/DAY) - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)a		0 (CARRIER)	0.3	3.0	30.0
LACTATION:					
RATS TESTED	N	30	29b	30	30
PREGNANT	N	21	27	28	27
DELIVERED LITTERS	N	20c	27	28	25d,e
INCLUDED IN ANALYSES	N	19f	27	27f	25
MATERNAL ACTUAL DOSAGE (MG/KG/DAY)					
DAYS 1 - 4	MEAN±S.D.	0.0 ± 0.0 [18]f	0.2 ± 0.1	3.0 ± 1.8	25.5 ± 6.4
DAYS 4 - 7	MEAN±S.D.	0 0 ± 0.0 [17]f	0.4 ± 0.0 [24]f	3.7 ± 0.7 [23]f	36.7 ± 8.0 [24]f
DAYS 7 - 10	MEAN±S.D.	0.0 ± 0.0 [18]f	0.3 ± 0.0 [25]f	3.9 ± 0.9 [26]f	36.9 ± 8.5 [23]f
DAYS 10 - 14g	MEAN±S.D.	0.0 ± 0.0	0.4 ± 0.0 [25]f	4.2 ± 0.5 [24]f	39.8 ± 6.4 [21]f
DAYS 1 - 14g	MEAN±S.D.	0.0 ± 0.0	0.4 ± 0.0 [25]f	3.6 ± 0.7 [24]f	34.7 ± 6.2 [21]f

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED

a. The actual dosage was calculated by averaging the concentrations used during each interval then rounding to one decimal place.
b. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
c. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
d. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
e. Excludes values for dam 7295, which was found dead on day 22 of gestation.
f. Excludes values that were incorrectly recorded, as well as those that appeared associated with spillage or those associated with spillage.
g. Because it is presumed that the pups begin to consume maternal water after day 14 of lactation, maternal water consumption values were not tabulated on days 14 to 21 of lactation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E2 (PAGE 1): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
PRECOHABITATION (DAY 1 OF STUDY TO THE DAY OF COHABITATION):				
MAXIMUM POSSIBLE INCIDENCE	2407/ 30	2396/ 30	2432/ 30	2428/ 30
MORIBUND SACRIFICED	0	1a	0	0
INCISORS: TOTAL	59/ 6	28/ 2	62/ 4	64/ 5
MISSING/BROKEN	34/ 5	8/ 1	10/ 2	18/ 4
MISALIGNED	37/ 4	20/ 2	53/ 3	51/ 3
LESION b	0/ 0	42/ 2a	33/ 2	22/ 3
LOCALIZED ALOPECIA: TOTAL	28/ 1	11/ 1	33/ 2	41/ 2
LIMBS	28/ 1	0/ 0	16/ 1	35/ 1
NECK	0/ 0	7/ 1	12/ 1	6/ 1
BACK	0/ 0	4/ 1	5/ 1	0/ 0
UMBILICAL HERNIA	0/ 0	0/ 0	0/ 0	53/ 1
CHROMODACRYORRHEA	14/ 4	3/ 2	8/ 2	24/ 1
EAR(S) SWOLLEN AND PURPLE	6/ 1	0/ 0	3/ 1	4/ 1
CHROMORHINORRHEA	6/ 3	8/ 4	1/ 1	1/ 1
LEFT FOREPAW: SWOLLEN FOURTH DIGIT	0/ 0	0/ 0	0/ 0	1/ 1
TIP OF TAIL MISSING	0/ 0	0/ 0	13/ 1	0/ 0
SWOLLEN SNOUT	2/ 1	0/ 0	1/ 1	0/ 0
NECK: MASS	0/ 0	40/ 1a	0/ 0	0/ 0
PALE APPEARANCE	0/ 0	3/ 1a	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 7253 was moribund sacrificed on day 62 postweaning.
b. Located on the neck, back, head or mouth.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E2 (PAGE 2): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
PRECOHABITATION (DAY 1 OF STUDY TO THE DAY OF COHABITATION):				
MAXIMUM POSSIBLE INCIDENCE	2407/ 30	2396/ 30	2432/ 30	2428/ 30
MORIBUND SACRIFICE	0	1a	0	0
EXOPHTHALMOS	75/ 1	0/ 0	0/ 0	0/ 0
CORNEAL OPACITY	69/ 1	0/ 0	0/ 0	0/ 0
DILATED PUPIL	42/ 1	0/ 0	0/ 0	0/ 0
LABORED BREATHING	4/ 1	0/ 0	0/ 0	0/ 0
DEHYDRATION	1/ 1	0/ 0	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Rat 7253 was moribund sacrificed on day 62 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E2 (PAGE 3): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
PRESUMED GESTATION: a				
MAXIMUM POSSIBLE INCIDENCE	686/ 29	643/ 28	689/ 30	697/ 30
FOUND DEAD	0	0	0	1b
CHROMODACRYORRHEA	52/ 3	10/ 1	29/ 4	27/ 3b
INCISORS: TOTAL	85/ 6	30/ 2	102/ 10	39/ 5
MISALIGNED	69/ 5	30/ 2	93/ 9	12/ 3
MISSING/BROKEN	42/ 5	0/ 0	39/ 4	30/ 3
LOCALIZED ALOPECIA: TOTAL	20/ 1	0/ 0	47/ 3	30/ 2
LIMBS	20/ 1	0/ 0	38/ 3	30/ 2
NECK	0/ 0	0/ 0	20/ 1	0/ 0
EAR(S) SWOLLEN AND PURPLE	22/ 1	0/ 0	15/ 1	21/ 1
UMBILICAL HERNIA	0/ 0	0/ 0	0/ 0	21/ 1
HEAD: LESION	0/ 0	0/ 0	0/ 0	20/ 1
CHROMORHINORRHEA	1/ 1	11/ 2	3/ 1	1/ 1
TIP OF TAIL MISSING	0/ 0	0/ 0	22/ 1	0/ 0
SWOLLEN SNOUT	4/ 1	10/ 1	0/ 0	0/ 0
EXOPHTHALMOS	21/ 1	0/ 0	0/ 0	0/ 0
CORNEAL OPACITY	21/ 1	0/ 0	0/ 0	0/ 0
LACRIMATION	1/ 1	0/ 0	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.
a. Restricted to rats with a confirmed mating date.
b. Dam 7295 was found dead on day 22 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E2 (PAGE 4): CLINICAL OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP	1	2	3	4
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)	0.3	3.0	30.0
LACTATION:				
MAXIMUM POSSIBLE INCIDENCE	420/ 20	567/ 27	588/ 28	525/ 25
MORTALITY	0	0	0	0
INCISORS: TOTAL	63/ 3	39/ 2	86/ 6	67/ 5
MISALIGNED	39/ 2	39/ 2	84/ 6	48/ 4
MISSING/BROKEN	44/ 3	15/ 1	53/ 4	43/ 4
CHROMODACRYORRHEA	42/ 2	38/ 2	44/ 3	52/ 3
EAR(S) SWOLLEN AND PURPLE	40/ 2	0/ 0	21/ 1	23/ 3
LOCALIZED ALOPECIA: TOTAL	14/ 2	18/ 1	48/ 3	21/ 1
LIMBS	14/ 2	18/ 1	48/ 3	21/ 1
UNDERSIDE	0/ 0	0/ 0	5/ 1	8/ 1
NECK	0/ 0	0/ 0	16/ 1	0/ 0
UMBILICAL HERNIA	0/ 0	0/ 0	0/ 0	2/ 1
SOFT OR LIQUID FECES	3/ 2	0/ 0	0/ 0	1/ 1
RED PERIVAGINAL SUBSTANCE	1/ 1	0/ 0	0/ 0	1/ 1
TIP OF TAIL MISSING	0/ 0	0/ 0	21/ 1	0/ 0
CHROMORHINORRHEA	1/ 1	2/ 1	2/ 1	0/ 0
SWOLLEN SNOUT	0/ 0	3/ 1	0/ 0	0/ 0
EXOPHTHALMOS	21/ 1	0/ 0	0/ 0	0/ 0
CORNEAL OPACITY	21/ 1	0/ 0	0/ 0	0/ 0

STATISTICAL ANALYSES OF CLINICAL OBSERVATION DATA WERE RESTRICTED TO THE NUMBER OF RATS WITH OBSERVATIONS.
MAXIMUM POSSIBLE INCIDENCE = (DAYS x RATS)/NUMBER OF RATS EXAMINED PER GROUP.
N/N = TOTAL NUMBER OF OBSERVATIONS/NUMBER OF RATS WITH OBSERVATION.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E3 (PAGE 1): BODY WEIGHTS - POSTWEANING - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT (G)					
DAY 1	MEAN±S.D.	43.1 ± 7.7	44.0 ± 7.1	44.0 ± 9.2	44.1 ± 6.6
DAY 8	MEAN±S.D.	82.1 ± 12.1	86.6 ± 11.6	85.9 ± 15.5	84.2 ± 9.0
DAY 15	MEAN±S.D.	128.7 ± 16.1	134.5 ± 11.8	131.7 ± 15.5	137.5 ± 10.2*
DAY 22	MEAN±S.D.	166.0 ± 18.5	171.9 ± 12.1	169.2 ± 15.4	173.1 ± 11.0
DAY 29	MEAN±S.D.	196.8 ± 16.6	202.1 ± 13.6	199.5 ± 16.7	203.2 ± 12.9
DAY 36	MEAN±S.D.	219.7 ± 18.3	224.8 ± 15.5	225.4 ± 18.8	229.5 ± 17.9
DAY 43	MEAN±S.D.	240.9 ± 22.4	246.8 ± 18.2	246.1 ± 21.4	250.4 ± 20.3
DAY 50	MEAN±S.D.	252.3 ± 20.4	258.6 ± 19.3	260.8 ± 21.9	263.4 ± 22.6
DAY 57	MEAN±S.D.	263.6 ± 24.5	270.8 ± 18.6	272.7 ± 24.6	273.9 ± 24.6
DAY 64	MEAN±S.D.	274.8 ± 24.2	281.4 ± 19.8 [29]a	285.9 ± 25.2	283.4 ± 26.4
PRECOHABITATION BODY WEIGHT b	MEAN±S.D.	286.1 ± 26.1	298.6 ± 21.1 [29]a	300.1 ± 28.7	300.7 ± 27.9

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes a value for a rat that was moribund sacrificed.
b. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E4 (PAGE 1): BODY WEIGHT CHANGES - POSTWEANING - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
BODY WEIGHT CHANGE (G)					
DAYS 1 - 8	MEAN±S.D.	+39.0 ± 6.5	+42.6 ± 6.8	+41.9 ± 7.8	+40.2 ± 4.2
DAYS 8 - 15	MEAN±S.D.	+46.6 ± 6.6	+47.9 ± 9.8	+45.7 ± 6.8	+53.2 ± 5.9**
DAYS 15 - 22	MEAN±S.D.	+37.3 ± 8.2	+37.4 ± 6.4	+37.5 ± 5.5	+35.7 ± 7.0
DAYS 22 - 29	MEAN±S.D.	+30.8 ± 7.5	+30.2 ± 5.2	+30.3 ± 5.5	+30.1 ± 5.9
DAYS 29 - 36	MEAN±S.D.	+22.9 ± 6.4	+22.7 ± 6.8	+25.9 ± 6.2	+26.3 ± 7.6
DAYS 36 - 43	MEAN±S.D.	+21.2 ± 8.6	+21.9 ± 7.4	+20.7 ± 8.3	+20.8 ± 6.2
DAYS 43 - 50	MEAN±S.D.	+11.4 ± 5.8	+11.9 ± 10.5	+14.7 ± 9.0	+13.0 ± 7.2
DAYS 50 - 57	MEAN±S.D.	+11.3 ± 9.3	+12.2 ± 9.0	+11.9 ± 7.7	+10.5 ± 7.2
DAYS 57 - 64	MEAN±S.D.	+11.3 ± 8.0	+10.3 ± 10.2 [29]a	+13.2 ± 8.4	+9.5 ± 7.1
DAYS 1 - 64	MEAN±S.D.	+231.7 ± 21.7	+237.9 ± 20.9 [29]a	+241.9 ± 22.2	+239.3 ± 26.4
DAYS 1 - PRECOHABITATION b	MEAN±S.D.	+243.0 ± 23.1	+255.1 ± 22.3 [29]a	+256.0 ± 25.7	+256.7 ± 28.4

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes a value for a rat that was moribund sacrificed.
b. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E5 (PAGE 1): MATERNAL BODY WEIGHTS - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP			1	2	3	4
TARGET DOSAGE (MG/KG/DAY)			0 (CARRIER)	0.3	3.0	30.0
RATS TESTED		N	30	29a	30	30
PREGNANT		N	21	27	28	27
INCLUDED IN ANALYSES		N	20b	27	28	26c
MATERNAL BODY WEIGHT (G)						
DAY	0	MEAN±S.D.	280.0 ± 23.2	295.3 ± 20.3	297.3 ± 27.9	295.6 ± 24.1
DAY	7	MEAN±S.D.	312.3 ± 23.3	329.7 ± 24.0	330.8 ± 34.2	329.7 ± 25.0
DAY	14	MEAN±S.D.	348.2 ± 24.6	363.1 ± 26.5	366.4 ± 33.9	367.0 ± 27.0
DAY	21	MEAN±S.D.	440.6 ± 29.5 [18]d	458.5 ± 32.5	459.2 ± 42.9 [26]d	455.7 ± 35.9 [24]d

DAY = DAY OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values that were not recorded; dam in the process of delivering.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E6 (PAGE 1): MATERNAL BODY WEIGHT CHANGES - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20b	27	28	26c
MATERNAL BODY WEIGHT CHANGE (G)					
DAYS 0 - 7	MEAN±S.D.	+32.4 ± 6.6	+34.4 ± 10.1	+33.5 ± 18.6	+34.1 ± 10.7
DAYS 7 - 14	MEAN±S.D.	+36.0 ± 5.3	+33.4 ± 11.1	+35.7 ± 14.2	+37.3 ± 6.4
DAYS 14 - 21	MEAN±S.D.	+93.7 ± 19.3 [18]d	+95.4 ± 12.2	+93.5 ± 22.6 [26]d	+89.7 ± 21.4 [24]d
DAYS 0 - 21	MEAN±S.D.	+161.7 ± 22.1 [18]d	+163.2 ± 17.4	+162.3 ± 27.0 [26]d	+160.0 ± 22.6 [24]d

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values that were not recorded; dam in the process of delivering.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E7 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
DELIVERED LITTERS	N	20b	27	28	25c,d
MATERNAL BODY WEIGHT (G)					
DAY 1	MEAN±S.D.	328.4 ± 28.2	335.8 ± 28.0	344.2 ± 34.8	343.8 ± 23.6
DAY 4	MEAN±S.D.	332.7 ± 29.0	338.9 ± 25.9	345.3 ± 32.7	340.9 ± 22.8
DAY 7	MEAN±S.D.	345.4 ± 33.8	358.7 ± 27.8	356.6 ± 35.6	351.3 ± 18.4
DAY 10	MEAN±S.D.	362.8 ± 24.5	369.8 ± 24.3	367.5 ± 33.0	368.1 ± 26.8
DAY 14	MEAN±S.D.	339.6 ± 21.0	358.2 ± 30.1*	361.7 ± 31.8**	361.5 ± 23.2**
DAY 21	MEAN±S.D.	354.0 ± 18.6	361.0 ± 22.6 [26]e	368.0 ± 21.4	367.2 ± 21.0

DAY = DAY OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes a value that was not recorded.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E8 (PAGE 1): MATERIAL BODY WEIGHT CHANGES - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
DELIVERED LITTERS	N	20b	27	28	25c,d
MATERNAL BODY WEIGHT CHANGE (G)					
DAYS 1 - 4	MEAN±S.D.	+4.4 ± 13.3	+3.1 ± 14.5	+1.1 ± 11.8	-2.9 ± 12.6
DAYS 4 - 7	MEAN±S.D.	+12.8 ± 11.6	+19.8 ± 11.5	+11.2 ± 11.0	+10.4 ± 17.3
DAYS 7 - 10	MEAN±S.D.	+17.4 ± 20.2	+11.1 ± 11.1	+10.9 ± 13.2	+16.8 ± 17.6
DAYS 10 - 14	MEAN±S.D.	-23.2 ± 19.3	-11.6 ± 25.8	-5.8 ± 20.7*	-6.6 ± 23.1*
DAYS 14 - 21	MEAN±S.D.	+14.4 ± 16.9	+3.9 ± 22.0 [26]e	+6.4 ± 20.8	+5.7 ± 24.8
DAYS 1 - 21	MEAN±S.D.	+25.7 ± 23.0	+24.2 ± 23.8 [26]e	+23.8 ± 21.4	+23.4 ± 26.5

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes a value that was not recorded.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E9 (PAGE 1): ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - POSTWEANING - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/DAY)					
DAYS 1 - 8	MEAN±S.D.	20.2 ± 3.4	19.7 ± 2.6	20.1 ± 3.6	20.5 ± 3.2 [29]a
DAYS 8 - 15	MEAN±S.D.	27.3 ± 4.9	27.0 ± 3.7 [29]a	27.1 ± 4.2	28.2 ± 3.8
DAYS 15 - 22	MEAN±S.D.	32.9 ± 6.5	33.4 ± 6.3	32.9 ± 6.2	34.4 ± 5.1 [29]a
DAYS 22 - 29	MEAN±S.D.	34.6 ± 5.7 [28]a	35.2 ± 8.2 [27]a	35.5 ± 7.7 [29]a	36.6 ± 9.8 [26]a
DAYS 29 - 36	MEAN±S.D.	35.4 ± 7.3 [28]a	38.1 ± 9.4 [27]a	38.4 ± 8.3 [29]a	39.6 ± 9.5 [27]a
DAYS 36 - 43	MEAN±S.D.	40.5 ± 9.6 [28]a	40.5 ± 10.1 [26]a	39.9 ± 9.7 [28]a	45.4 ± 12.0 [24]a
DAYS 43 - 50	MEAN±S.D.	39.0 ± 9.5 [27]a	39.2 ± 10.8 [28]a	40.0 ± 10.5 [27]a	44.3 ± 10.4 [25]a
DAYS 50 - 57	MEAN±S.D.	42.2 ± 11.6 [27]a	38.5 ± 9.1 [22]a	40.8 ± 9.6 [23]a	43.4 ± 10.4 [22]a
DAYS 57 - 64b	MEAN±S.D.	44.4 ± 13.3 [25]a	39.0 ± 11.1 [20]a,c	41.3 ± 10.6 [22]a	43.5 ± 11.5 [24]a
DAYS 1 - 64b	MEAN±S.D.	33.5 ± 5.0 [25]a	33.4 ± 6.0 [20]a,c	34.8 ± 6.6 [22]a	36.6 ± 6.0 [24]a

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values that could not be calculated as well as those that appeared associated with spillage or those associated with spillage.
b. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a water consumption value was recorded for the youngest rats.
c. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E10 (PAGE 1): RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - POSTWEANING - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
WATER CONSUMPTION (G/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	324.1 ± 45.1	303.9 ± 40.8	316.6 ± 72.6	322.2 ± 45.2 [29]a
DAYS 8 - 15	MEAN±S.D.	259.4 ± 34.9	246.1 ± 33.2 [29]a	251.0 ± 38.2	255.8 ± 35.9
DAYS 15 - 22	MEAN±S.D.	224.1 ± 42.2	218.0 ± 39.0	220.8 ± 46.6	222.3 ± 36.2 [29]a
DAYS 22 - 29	MEAN±S.D.	191.6 ± 26.8 [28]a	186.2 ± 40.8 [27]a	193.8 ± 46.8 [29]a	194.4 ± 51.3 [26]a
DAYS 29 - 36	MEAN±S.D.	171.8 ± 36.0 [28]a	177.8 ± 43.7 [27]a	181.4 ± 44.0 [29]a	183.1 ± 44.6 [27]a
DAYS 36 - 43	MEAN±S.D.	176.5 ± 38.5 [28]a	169.8 ± 41.7 [26]a	170.4 ± 47.0 [28]a	188.4 ± 54.3 [24]a
DAYS 43 - 50	MEAN±S.D.	157.0 ± 35.4 [27]a	154.8 ± 44.8 [28]a	158.2 ± 44.7 [27]a	172.1 ± 43.2 [25]a
DAYS 50 - 57	MEAN±S.D.	163.9 ± 42.6 [27]a	145.1 ± 31.9 [22]a	152.5 ± 37.6 [23]a	160.7 ± 40.8 [22]a
DAYS 57 - 64b	MEAN±S.D.	167.5 ± 53.0 [25]a	141.1 ± 38.2 [20]a,c	150.4 ± 45.2 [22]a	156.3 ± 46.5 [24]a
DAYS 1 - 64b	MEAN±S.D.	181.7 ± 26.2 [25]a	174.2 ± 30.5 [20]a,c	183.2 ± 42.3 [22]a	188.1 ± 32.8 [24]a

DAY = DAY POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values that could not be calculated as well as those that appeared associated with spillage or those associated with spillage.
b. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a water consumption value was recorded for the youngest rats.
c. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E11 (PAGE 1): MATERNAL ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20b	27	28	26c
MATERNAL WATER CONSUMPTION (G/DAY)					
DAYS 0 - 7	MEAN±S.D.	50.8 ± 7.9 [14]d	55.9 ± 16.3 [22]d	52.2 ± 13.2 [20]d	59.0 ± 14.0 [17]d
DAYS 7 - 14	MEAN±S.D.	56.7 ± 9.9 [12]d	55.0 ± 12.1 [23]d	57.0 ± 13.4 [21]d	64.8 ± 14.0 [19]d
DAYS 14 - 21	MEAN±S.D.	62.1 ± 12.4 [19]d	56.1 ± 9.9	59.0 ± 10.1	59.4 ± 9.4
DAYS 0 - 21	MEAN±S.D.	60.8 ± 10.5 [19]d	55.9 ± 10.6	57.9 ± 11.0	61.3 ± 10.1

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values that were associated with spillage or appeared associated with spillage.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E12 (PAGE 1): MATERNAL RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20b	27	28	26c
MATERNAL WATER CONSUMPTION (G/KG/DAY)					
DAYS 0 - 7	MEAN±S.D.	174.4 ± 22.1 [14]d	177.5 ± 49.4 [22]d	164.8 ± 43.2 [20]d	187.8 ± 50.5 [17]d
DAYS 7 - 14	MEAN±S.D.	175.6 ± 29.6 [12]d	159.5 ± 32.3 [23]d	164.1 ± 36.8 [21]d	187.5 ± 47.3 [19]d
DAYS 14 - 21	MEAN±S.D.	158.6 ± 36.4 [17]d,e	137.0 ± 25.9	144.6 ± 24.8 [26]e	145.0 ± 29.9 [24]e
DAYS 0 - 21	MEAN±S.D.	176.7 ± 33.1 [17]d,e	154.7 ± 29.3	161.0 ± 31.2 [26]e	170.9 ± 34.8 [24]e

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values that were associated with spillage or appeared associated with spillage.
e. Excludes values that were not recorded; dam in the process of delivering.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E13 (PAGE 1): MATERNAL ABSOLUTE WATER CONSUMPTION VALUES (G/DAY) - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
DELIVERED LITTERS	N	20b	27	28	25c,d
INCLUDED IN ANALYSES	N	19e	27	27e	25
MATERNAL WATER CONSUMPTION (G/DAY)					
DAYS 1 - 4	MEAN±S.D.	56.8 ± 16.3 [18]e	59.8 ± 24.0	61.4 ± 40.0	54.0 ± 11.8
DAYS 4 - 7	MEAN±S.D.	81.0 ± 11.9 [17]e	83.4 ± 14.6 [24]e	76.2 ± 15.2 [23]e	78.8 ± 17.0 [24]e
DAYS 7 - 10	MEAN±S.D.	103.0 ± 19.2 [18]e	95.7 ± 12.3 [25]e	95.5 ± 19.0 [26]e	96.9 ± 22.2 [23]e
DAYS 10 - 14f	MEAN±S.D.	109.0 ± 11.4	110.1 ± 9.6 [25]e	104.8 ± 12.2 [24]e	107.0 ± 16.6 [21]e
DAYS 1 - 14f	MEAN±S.D.	90.0 ± 13.8	89.8 ± 11.2 [25]e	83.8 ± 13.3 [24]e	84.8 ± 14.0 [21]e

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes values that were incorrectly recorded, as well as those that appeared associated with spillage or those associated with spillage.
f. Because it is presumed that the pups begin to consume maternal water after day 14 of lactation, maternal water consumption values were not tabulated on days 14 to 21 of lactation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E14 (PAGE 1): MATERNAL RELATIVE WATER CONSUMPTION VALUES (G/KG/DAY) - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
DELIVERED LITTERS	N	20b	27	28	25c,d
INCLUDED IN ANALYSES	N	19e	27	27e	25
MATERNAL WATER CONSUMPTION (G/KG/DAY)					
DAYS 1 - 4	MEAN±S.D.	171.5 ± 49.4 [18]e	177.2 ± 70.5	177.8 ±109.7	159.1 ± 40.2
DAYS 4 - 7	MEAN±S.D.	238.9 ± 38.8 [17]e	239.8 ± 29.7 [24]e	218.7 ± 42.8 [23]e	228.7 ± 50.0 [24]e
DAYS 7 - 10	MEAN±S.D.	294.6 ± 62.7 [18]e	264.8 ± 31.6 [25]e	267.5 ± 62.1 [26]e	270.5 ± 62.5 [23]e
DAYS 10 - 14f	MEAN±S.D.	310.7 ± 37.2	303.6 ± 30.6 [25]e	289.9 ± 35.9 [24]e	292.0 ± 47.0 [21]e
DAYS 1 - 14f	MEAN±S.D.	264.9 ± 45.7	255.4 ± 27.5 [25]e	239.2 ± 46.0 [24]e	239.0 ± 42.5 [21]e

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes values that were incorrectly recorded or not recorded, as well as those that appeared associated with spillage or those associated with spillage.
f. Because it is presumed that the pups begin to consume maternal water after day 14 of lactation, maternal water consumption values were not tabulated on days 14 to 21 of lactation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E15 (PAGE 1): ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - POSTWEANING - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
FEED CONSUMPTION (G/DAY)					
DAYS 1 - 8	MEAN±S.D.	12.5 ± 1.7	12.8 ± 1.2 [28]a	13.0 ± 1.8 [26]a	12.7 ± 1.3 [27]a
DAYS 8 - 15	MEAN±S.D.	19.0 ± 2.0	18.8 ± 2.3	19.0 ± 2.1	19.5 ± 1.5
DAYS 15 - 22	MEAN±S.D.	21.0 ± 2.0	21.6 ± 1.6 [28]a	21.5 ± 1.5	22.3 ± 1.8
DAYS 22 - 29	MEAN±S.D.	22.2 ± 2.4 [26]a	22.4 ± 1.8 [29]a	22.8 ± 2.3 [28]a	22.8 ± 2.0
DAYS 29 - 36	MEAN±S.D.	22.4 ± 2.6 [29]a	21.7 ± 1.9 [28]a	23.3 ± 2.6	23.5 ± 3.1 [29]a
DAYS 36 - 43	MEAN±S.D.	22.9 ± 2.9 [29]a	23.3 ± 2.0 [26]a	23.9 ± 2.6 [27]a	24.3 ± 2.4 [26]a
DAYS 43 - 50	MEAN±S.D.	22.4 ± 2.4 [29]a	22.9 ± 2.4 [28]a	23.5 ± 1.9 [28]a	23.2 ± 2.6 [25]a
DAYS 50 - 57	MEAN±S.D.	22.3 ± 2.6 [29]a	23.2 ± 2.3 [28]a	24.7 ± 3.4** [29]a	22.8 ± 2.2 [27]a
DAYS 57 - 64b	MEAN±S.D.	21.3 ± 2.9 [29]a	22.4 ± 3.6 [27]a,c	22.9 ± 3.1 [29]a	22.3 ± 2.8 [29]a
DAYS 1 - 64b	MEAN±S.D.	20.6 ± 1.9 [29]a	21.1 ± 1.7 [27]a,c	21.8 ± 2.1 [29]a	21.6 ± 1.4 [29]a

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that could not be calculated, as well as those associated with spillage or soiled or wet feed.
b. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats.
c. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E16 (PAGE 1): RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - POSTWEANING - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
FEED CONSUMPTION (G/KG/DAY)					
DAYS 1 - 8	MEAN±S.D.	200.4 ± 14.1	197.0 ± 19.0 [28]a	197.3 ± 19.6 [26]a	197.8 ± 15.0 [27]a
DAYS 8 - 15	MEAN±S.D.	182.7 ± 25.1	170.8 ± 16.9	176.4 ± 16.6	176.4 ± 14.0
DAYS 15 - 22	MEAN±S.D.	143.1 ± 10.2	140.4 ± 10.6 [28]a	144.0 ± 11.2	143.6 ± 10.0
DAYS 22 - 29	MEAN±S.D.	122.6 ± 9.3 [26]a	120.1 ± 10.2 [29]a	124.1 ± 11.1 [28]a	121.3 ± 9.4
DAYS 29 - 36	MEAN±S.D.	107.6 ± 9.6 [29]a	102.4 ± 10.0* [28]a	109.7 ± 8.4	108.6 ± 14.4 [29]a
DAYS 36 - 43	MEAN±S.D.	99.6 ± 8.5 [29]a	97.8 ± 7.9 [26]a	101.7 ± 10.1 [27]a	100.7 ± 6.6 [26]a
DAYS 43 - 50	MEAN±S.D.	90.6 ± 6.5 [29]a	90.5 ± 9.8 [28]a	94.0 ± 7.2 [28]a	90.7 ± 5.5 [25]a
DAYS 50 - 57	MEAN±S.D.	86.8 ± 7.1 [29]a	87.4 ± 8.3 [28]a	92.2 ± 9.9 [29]a	85.0 ± 4.7 [27]a
DAYS 57 - 64b	MEAN±S.D.	79.3 ± 10.8 [29]a	80.2 ± 10.1 [27]a,c	81.7 ± 8.3 [29]a	80.0 ± 7.3 [29]a
DAYS 1 - 64b	MEAN±S.D.	110.7 ± 6.7 [29]a	109.4 ± 7.0 [27]a,c	113.3 ± 8.4 [29]a	111.0 ± 5.8 [29]a

DAYS = DAYS POSTWEANING
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values that could not be calculated, as well as those associated with spillage or soiled or wet feed.
b. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded for the youngest rats.
c. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E17 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20b	27	28	26c
MATERNAL FEED CONSUMPTION (G/DAY)					
DAYS 0 - 7	MEAN±S.D.	25.0 ± 3.9	25.1 ± 2.6 [25]d	25.3 ± 4.9 [24]d	25.0 ± 2.3 [24]d
DAYS 7 - 14	MEAN±S.D.	26.0 ± 3.3	26.2 ± 2.8	27.8 ± 3.1 [27]d	27.2 ± 2.4
DAYS 14 - 21	MEAN±S.D.	28.2 ± 2.8	27.8 ± 1.8	28.4 ± 2.9 [26]d	28.1 ± 2.5
DAYS 0 - 21	MEAN±S.D.	26.4 ± 2.9	26.4 ± 2.2	27.3 ± 3.1 [26]d	26.9 ± 2.2

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values that were incorrectly recorded as well as those associated with spillage.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E18 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - GESTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20b	27	28	26c
MATERNAL FEED CONSUMPTION (G/KG/DAY)					
DAYS 0 - 7	MEAN±S.D.	84.7 ± 12.6	79.9 ± 6.0 [25]d	80.2 ± 15.6 [24]d	80.8 ± 7.1 [24]d
DAYS 7 - 14	MEAN±S.D.	78.5 ± 6.6	75.5 ± 5.5	79.7 ± 7.2 [27]d	78.0 ± 5.3
DAYS 14 - 21	MEAN±S.D.	70.7 ± 5.4 [18]e	67.8 ± 3.9	68.4 ± 6.0 [24]d,e	67.9 ± 6.9 [23]e
DAYS 0 - 21	MEAN±S.D.	75.8 ± 6.8 [18]e	73.0 ± 4.3	74.4 ± 7.1 [24]d,e	73.9 ± 5.6 [23]e

DAYS = DAYS OF GESTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values that were incorrectly recorded as well as those associated with spillage.
e. Excludes values that were not recorded; dam in the process of delivering.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E19 (PAGE 1): MATERNAL ABSOLUTE FEED CONSUMPTION VALUES (G/DAY) - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
DELIVERED LITTERS	N	20b	27	28	25c,d
MATERNAL FEED CONSUMPTION (G/DAY)					
DAYS 1 - 4	MEAN±S.D.	36.9 ± 15.0 [19]e	33.0 ± 6.7 [26]e	30.8 ± 7.0	28.9 ± 5.3 [22]e
DAYS 4 - 7	MEAN±S.D.	53.5 ± 10.2 [17]e	55.9 ± 6.9 [22]e	48.6 ± 8.7 [23]e	49.0 ± 9.8 [22]e
DAYS 7 - 10	MEAN±S.D.	63.8 ± 10.9	62.5 ± 5.8 [23]e	58.5 ± 8.1 [24]e	58.2 ± 8.8 [23]e
DAYS 10 - 14f	MEAN±S.D.	62.6 ± 13.3 [8]e	64.9 ± 10.7 [13]e	64.7 ± 5.7 [20]e	62.6 ± 9.9 [12]e
DAYS 1 - 14f	MEAN±S.D.	50.6 ± 10.3 [8]e	53.8 ± 5.4 [13]e	50.4 ± 5.1 [20]e	48.7 ± 8.5 [12]e

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes values that were not recorded, as well as those that appeared associated with spillage or those associated with spillage.
f. Because it is presumed that the pups begin to consume maternal feed after day 14 of lactation, maternal feed consumption values were not tabulated on days 14 to 21 of lactation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E20 (PAGE 1): MATERNAL RELATIVE FEED CONSUMPTION VALUES (G/KG/DAY) - LACTATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	29a	30	30
PREGNANT	N	21	27	28	27
DELIVERED LITTERS	N	20b	27	28	25c,d
MATERNAL FEED CONSUMPTION (G/KG/DAY)					
DAYS 1 - 4	MEAN±S.D.	111.6 ± 42.4 [19]e	97.2 ± 18.1 [26]e	89.4 ± 19.2	84.3 ± 16.6* [22]e
DAYS 4 - 7	MEAN±S.D.	160.5 ± 35.6 [17]e	158.9 ± 16.3 [22]e	140.4 ± 25.6* [23]e	142.4 ± 28.0 [22]e
DAYS 7 - 10	MEAN±S.D.	181.3 ± 33.9	170.6 ± 12.6* [23]e	161.2 ± 20.9** [24]e	161.8 ± 21.7* [23]e
DAYS 10 - 14f	MEAN±S.D.	179.5 ± 41.7 [8]e	180.3 ± 28.8 [13]e	181.3 ± 20.9 [20]e	171.1 ± 26.5 [12]e
DAYS 1 - 14f	MEAN±S.D.	147.7 ± 33.6 [8]e	154.6 ± 12.9 [13]e	145.4 ± 17.1 [20]e	137.6 ± 25.6 [12]e

DAYS = DAYS OF LACTATION
[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes values that were not recorded, as well as those that appeared associated with spillage or those associated with spillage.
f. Because it is presumed that the pups begin to consume maternal feed after day 14 of lactation, maternal feed consumption values were not tabulated on days 14 to 21 of lactation.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E21 (PAGE 1): SEXUAL MATURATION - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
VAGINA PATENT a	MEAN±S.D.	32.5 ± 2.5	32.0 ± 1.7	30.9 ± 1.5*	31.4 ± 1.7

a. Average day postpartum that the vagina was patent.
* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E22 (PAGE 1): ESTROUS CYCLING, MATING AND FERTILITY - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PRECOHABITATION ESTROUS CYCLING					
RATS EVALUATED	N	30	30	30	30
INCLUDED IN ANALYSES	N	30	29a	30	30
ESTROUS STAGES/ 14 DAYS	MEAN±S.D.	5.0 ± 0.8	4.8 ± 0.8	4.9 ± 0.7	4.9 ± 1.0
RATS WITH 6 OR MORE CONSECUTIVE DAYS OF DIESTRUS	N	3	3	0	3
RATS WITH 6 OR MORE CONSECUTIVE DAYS OF ESTRUS	N	0	0	0	0

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning (day 3 of estrous cycling).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E22 (PAGE 2): ESTROUS CYCLING, MATING AND FERTILITY - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS IN COHABITATION	N	30	29a	30	30
DAYS IN COHABITATION b	MEAN±S.D	2.9 ± 2.8	3.2 ± 2.6	2.9 ± 1.6	2.4 ± 1.2 [29]c
RATS THAT MATED	N(%)	29(96.7)	28(96.6)	30(100.0)	30(100.0)
FERTILITY INDEX d	N/N (%)	21/29 (72.4)	27/28** (96.4)	28/30** (93.3)	27/30** (90.0)
RATS WITH CONFIRMED MATING DATES	N	29	28	30	29c
RATS MATING e					
DAYS 1- 7	N(%)	28(96.6)	28(100.0)	30(100.0)	29(100.0)
DAYS 8-14	N(%)	1(3.4)	0(0.0)	0(0.0)	0(0.0)c
RATS PREGNANT/RATS IN COHABITATION	N/N (%)	21/30 (70.0)	27/29** (93.1)	28/30** (93.3)	27/30** (90.0)

[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning (day 3 of estrous cycling).
b. Restricted to rats with a confirmed mating date and rats that did not mate.
c. Excludes values for dam 7307, which was cohabited with a second male rat.
d. Number of pregnancies/number of rats that mated.
e. Restricted to rats with a confirmed mating date.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E23 (PAGE 1): NATURAL DELIVERY OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS ASSIGNED TO NATURAL DELIVERY	N	30	30	29a	30
PREGNANT	N	21(70.0)	27(90.0)**	28(96.6)**	27(90.0)**
DELIVERED LITTERS	N	20(95.2)b	27(100.0)	28(100.0)	25(92.6)c,d
DURATION OF GESTATION e	MEAN±S.D.	22.6 ± 0.5	22.8 ± 0.4	22.8 ± 0.5	22.8 ± 0.4
IMPLANTATION SITES	N	310	439	441	386
PER DELIVERED LITTER	MEAN±S.D.	15.5 ± 3.3	16.2 ± 1.9	15.8 ± 2.9	15.4 ± 3.3
DAMS WITH STILLBORN PUPS	N(%)	1(5.0)	1(3.7)	4(14.3)	5(20.0)
DAMS WITH NO LIVEBORN PUPS	N	0	0	0	0
GESTATION INDEX	%	95.2	100.0	100.0	92.6
	N/N	20/ 21	27/ 27	28/ 28	25/ 27
DAMS WITH ALL PUPS DYING DAYS 1-4 POSTPARTUM	N(%)	0(0.0)	0(0.0)	0(0.0)	0(0.0)
DAMS WITH ALL PUPS DYING DAYS 5-21 POSTPARTUM	N(%)	0(0.0)	0(0.0)	0(0.0)	0(0.0)

GESTATION INDEX = (NUMBER OF DAMS WITH LIVEBORN PUPS/NUMBER OF PREGNANT RATS) X 100.

a. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
b. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Calculated as the time (in days) elapsed between confirmed mating (arbitrarily defined as 0 hour) and the time (in days) the first pup was delivered.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E24 (PAGE 1): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F2 GENERATION LITTERS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS	N	20	27	28	25
PUPS DELIVERED (TOTAL)	N	287	418	411	364
	MEAN±S.D.	14.4 ± 3.5	15.5 ± 2.0	14.7 ± 3.0	14.6 ± 4.0
LIVEBORN	MEAN±S.D.	14.3 ± 3.4	15.4 ± 2.0	14.5 ± 3.0	14.2 ± 4.0
	N(%)	286(99.6)	417(99.8)	406(98.8)	355(97.5)**
STILLBORN	MEAN±S.D.	0.0 ± 0.2	0.0 ± 0.2	0.2 ± 0.5	0.4 ± 0.9
	N(%)	1(0.3)	1(0.2)	5(1.2)	9(2.5)**
PUPS FOUND DEAD OR PRESUMED CANNIBALIZED					
DAY 1	N/N(%)	1/286(0.3)	2/417(0.5)	1/406(0.2)	1/355(0.3)
DAYS 2- 4	N/N(%)	5/285(1.8)	5/415(1.2)	6/405(1.5)	8/354(2.2)
DAYS 5- 7	N/N(%)	4/280(1.4)	3/410(0.7)	5/399(1.2)	5/346(1.4)
DAYS 8-14	N/N(%)	2/276(0.7)	7/407(1.7)	10/394(2.5)	6/341(1.8)
DAYS 15-21	N/N(%)	2/274(0.7)	0/400(0.0)	3/384(0.8)	2/335(0.6)
VIABILITY INDEX a	%	97.9	98.3	98.3	97.5
	N/N	280/286	410/417	399/406	346/355
LACTATION INDEX b	%	97.1	97.6	95.5	96.2
	N/N	272/280	400/410	381/399	333/346

DAY(S) = DAY(S) POSTPARTUM
a. Number of live pups on day 4 postpartum/number of liveborn pups on day 1 postpartum.
b. Number of live pups on day 21 postpartum/number of live pups on day 4 postpartum.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E24 (PAGE 2): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F2 GENERATION LITTERS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS	N	20	27	28	25
SURVIVING PUPS/LITTER a					
DAY 1 b	MEAN±S.D.	14.3 ± 3.4	15.4 ± 2.0	14.5 ± 3.0	14.2 ± 4.0
DAY 4	MEAN±S.D.	14.0 ± 3.4	15.2 ± 1.9	14.2 ± 3.0	13.8 ± 3.9
DAY 7	MEAN±S.D.	13.8 ± 3.4	15.1 ± 1.8	14.1 ± 3.0	13.6 ± 3.8
DAY 14	MEAN±S.D.	13.7 ± 3.4	14.8 ± 1.8	13.7 ± 3.0	13.4 ± 3.7
DAY 21	MEAN±S.D.	13.6 ± 3.3	14.8 ± 1.8	13.6 ± 3.0	13.3 ± 3.6
PERCENT MALE PUPS PER NUMBER OF PUPS SEXED					
DAY 1 b	MEAN±S.D.	51.0 ± 13.8	44.2 ± 15.0	50.0 ± 16.7	49.3 ± 13.7
DAY 4	MEAN±S.D.	51.1 ± 13.5	44.2 ± 15.5	50.0 ± 17.1	49.9 ± 14.2
DAY 7	MEAN±S.D.	51.9 ± 13.7	44.3 ± 15.7	50.4 ± 17.4	50.4 ± 14.0
DAY 14	MEAN±S.D.	52.1 ± 13.4	44.0 ± 15.5	50.9 ± 17.7	50.4 ± 14.2
DAY 21	MEAN±S.D.	52.2 ± 13.8	44.0 ± 15.5	51.2 ± 17.5	50.4 ± 14.2

DAY = DAY POSTPARTUM
a. Average number of live pups per litter, including litters with no surviving pups.
b. Includes pups born alive, found dead day 1 postpartum.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E24 (PAGE 3): LITTER OBSERVATIONS (NATURALLY DELIVERED PUPS) - SUMMARY - F2 GENERATION LITTERS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
DELIVERED LITTERS WITH ONE OR MORE LIVEBORN PUPS	N	20	27	28	25
LIVE LITTER SIZE AT WEIGHING					
DAY 1	MEAN±S.D.	14.2 ± 3.5	15.4 ± 1.9	14.4 ± 2.9	14.1 ± 4.1
DAY 4	MEAN±S.D.	14.0 ± 3.4	15.2 ± 1.9	14.2 ± 3.0	13.8 ± 3.9
DAY 7	MEAN±S.D.	13.8 ± 3.4	15.1 ± 1.8	14.1 ± 3.0	13.6 ± 3.8
DAY 14	MEAN±S.D.	13.7 ± 3.4	14.8 ± 1.8	13.7 ± 3.0	13.4 ± 3.7
DAY 21	MEAN±S.D.	13.6 ± 3.3	14.8 ± 1.8	13.6 ± 3.0	13.3 ± 3.6
PUP WEIGHT/LITTER (GRAMS)					
DAY 1	MEAN±S.D.	6.6 ± 0.6	6.5 ± 0.6	6.5 ± 0.6	6.5 ± 0.4
DAY 4	MEAN±S.D.	9.3 ± 1.5	9.0 ± 1.1	9.0 ± 1.4	9.0 ± 1.4
DAY 7	MEAN±S.D.	13.5 ± 2.3	13.1 ± 2.2	13.0 ± 2.5	13.1 ± 2.5
DAY 14	MEAN±S.D.	26.2 ± 4.6	24.4 ± 3.6	25.2 ± 4.4	26.2 ± 5.5
DAY 21	MEAN±S.D.	40.1 ± 7.8	37.0 ± 6.1	38.7 ± 7.4	39.5 ± 9.4

DAY = DAY POSTPARTUM

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E25 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - SUMMARY - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
LITTERS EXAMINED (N)		20	27	28	25
TRANSIENT CLINICAL OBSERVATIONS: a		TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS			
COLD TO TOUCH	N/N	4/ 2	2/ 2	2/ 1	2/ 2
THIN IN APPEARANCE	N/N	4/ 2	0/ 0	0/ 0	2/ 2
UMBILICAL HERNIA	N/N	0/ 0	0/ 0	0/ 0	18/ 1
LABORED BREATHING	N/N	0/ 0	0/ 0	0/ 0	1/ 1
NO MILK APPARENT IN STOMACH	N/N	0/ 0	0/ 0	0/ 0	1/ 1
LESION b	N/N	0/ 0	0/ 0	5/ 2	0/ 0
PENIS, MASS	N/N	0/ 0	0/ 0	1/ 1	0/ 0
PALE IN APPEARANCE	N/N	0/ 0	0/ 0	1/ 1	0/ 0
BLUE IN COLOR	N/N	0/ 0	0/ 0	1/ 1	0/ 0
NOT NURSING	N/N	4/ 2	0/ 0**	0/ 0**	0/ 0**
PERSISTENT CLINICAL OBSERVATIONS: a		TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS			
PORTION OF TAIL MISSING	N/N	21/ 1	15/ 1	21/ 1	0/ 0
PORTION OF TAIL BLACK	N/N	0/ 0	1/ 1	0/ 0	0/ 0

STATISTICAL ANALYSES WERE RESTRICTED TO THE NUMBER OF LITTERS WITH OBSERVATIONS.
N/N = TOTAL FREQUENCY (DAYS x PUPS)/LITTERS WITH OBSERVATIONS
a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Located on the head and/or left axilla or left side of back and behind right ear.
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E26 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS EXAMINED a	N	30	30	29b	30
FOUND DEAD	N	0	0	0	1c
MORIBUND SACRIFICED	N	0	1d	0	0
APPEARED NORMAL	N	29	28	29	28
SPLEEN:					
CLEAR FLUID-FILLED CYST	N	0	0	0	1
LARGE	N	0	1d	0	0
EXTERNAL OBSERVATIONS:					
RED PERIVAGINAL SUBSTANCE	N	0	0	0	1c
LEFT EYE, CHROMODACRYORRHEA	N	0	1	0	0
INCISORS, UPPER BILATERAL, MISSING/BROKEN	N	0	1	0	0
INCISORS, UPPER BILATERAL, MISALIGNED	N	0	1	0	0

a. Refer to the individual clinical observations table (Table E33) for external observations confirmed at necropsy.
b. Excludes dam 7285, necropsy observations were not recorded.
c. Dam 7295 was found dead on day 22 of gestation.
d. Rat 7253 was moribund sacrificed on day 62 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E27 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20a	27b	28	25c,d
TERMINAL BODY WEIGHT	MEAN±S.D.	354.0 ± 18.6	361.0 ± 22.6	368.0 ± 21.4	367.2 ± 21.0
PITUITARY	MEAN±S.D.	0.016 ± 0.003	0.016 ± 0.003	0.016 ± 0.004	0.016 ± 0.004
BRAIN	MEAN±S.D.	2.20 ± 0.11	2.23 ± 0.10	2.23 ± 0.08	2.19 ± 0.11
LIVER	MEAN±S.D.	19.92 ± 2.10	20.27 ± 1.73	19.67 ± 1.39	19.11 ± 1.76
KIDNEY PAIRED	MEAN±S.D.	3.31 ± 0.27	3.32 ± 0.26	3.38 ± 0.25	3.26 ± 0.32
ADRENAL PAIRED	MEAN±S.D.	0.112 ± 0.013	0.107 ± 0.013	0.112 ± 0.011	0.103 ± 0.014*
SPLEEN	MEAN±S.D.	0.74 ± 0.12	0.76 ± 0.12	0.77 ± 0.10	0.77 ± 0.09
OVARY PAIRED	MEAN±S.D.	0.126 ± 0.027	0.126 ± 0.027	0.130 ± 0.029	0.131 ± 0.029
THYROID	MEAN±S.D.	0.022 ± 0.003	0.025 ± 0.004*	0.028 ± 0.004** [27]e	0.033 ± 0.005**
HEART	MEAN±S.D.	1.37 ± 0.13	1.38 ± 0.10	1.39 ± 0.12	1.39 ± 0.12

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
b. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes a value that was not recorded.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E28 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)		1 0 (CARRIER)	2 0.3	3 3.0	4 30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20a	26b,c	28	25d,e
TERMINAL BODY WEIGHT	MEAN±S.D.	354.0 ± 18.6	361.0 ± 22.6	368.0 ± 21.4	367.2 ± 21.0
PITUITARY f	MEAN±S.D.	4.469 ± 0.688	4.559 ± 0.752	4.315 ± 1.098	4.462 ± 0.997
BRAIN	MEAN±S.D.	0.622 ± 0.038	0.621 ± 0.048	0.607 ± 0.034	0.599 ± 0.042
LIVER	MEAN±S.D.	5.632 ± 0.575	5.652 ± 0.339	5.350 ± 0.339	5.206 ± 0.385*
KIDNEY PAIRED	MEAN±S.D.	0.934 ± 0.074	0.923 ± 0.073	0.918 ± 0.059	0.887 ± 0.080
ADRENAL PAIRED	MEAN±S.D.	0.030 ± 0.004	0.029 ± 0.005	0.031 ± 0.004	0.028 ± 0.004
SPLEEN	MEAN±S.D.	0.208 ± 0.034	0.211 ± 0.035	0.210 ± 0.029	0.208 ± 0.027
OVARY PAIRED	MEAN±S.D.	0.036 ± 0.008	0.034 ± 0.008	0.035 ± 0.008	0.035 ± 0.008
THYROID f	MEAN±S.D.	6.279 ± 0.917	7.032 ± 1.224*	7.707 ± 1.172** [27]g	9.018 ± 1.333**
HEART	MEAN±S.D.	0.388 ± 0.034	0.382 ± 0.029	0.377 ± 0.026	0.377 ± 0.028

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
b. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
c. Excludes values for rat 7239, which did not have a terminal body weight recorded.
d. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
e. Excludes values for dam 7295, which was found dead on day 22 of gestation.
f. Value was multiplied by 1000.
g. Excludes a value that was not recorded.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E29 (PAGE 1): RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - SUMMARY - F1 GENERATION FEMALE RATS

DOSAGE GROUP		1	2	3	4
TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
RATS TESTED	N	30	30	30	30
PREGNANT	N	21	27	28	27
INCLUDED IN ANALYSES	N	20a	27b	28	25c,d
BRAIN WEIGHT	MEAN±S.D.	2.20 ± 0.11	2.23 ± 0.10	2.23 ± 0.08	2.19 ± 0.11
PITUITARY	MEAN±S.D.	0.72 ± 0.12	0.73 ± 0.13	0.71 ± 0.18	0.74 ± 0.15
LIVER	MEAN±S.D.	908.63 ±100.57	909.06 ± 86.73	883.81 ± 65.55	873.83 ± 95.77
KIDNEY PAIRED	MEAN±S.D.	150.81 ± 11.38	148.76 ± 13.01	151.69 ± 10.18	148.88 ± 16.50
ADRENAL PAIRED	MEAN±S.D.	5.12 ± 0.59	4.78 ± 0.59	5.03 ± 0.48	4.70 ± 0.70
SPLEEN	MEAN±S.D.	33.77 ± 6.24	34.00 ± 5.60	34.75 ± 5.04	34.95 ± 4.00
OVARY PAIRED	MEAN±S.D.	5.75 ± 1.23	5.66 ± 1.30	5.84 ± 1.38	6.00 ± 1.35
THYROID	MEAN±S.D.	1.01 ± 0.14	1.13 ± 0.18*	1.28 ± 0.19** [27]e	1.51 ± 0.23**
HEART	MEAN±S.D.	62.39 ± 6.23	61.60 ± 3.89	62.24 ± 4.75	63.32 ± 5.47

ALL WEIGHTS WERE RECORDED IN GRAMS (G).
[ ] = NUMBER OF VALUES AVERAGED
a. Excludes values for dam 7212, which did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.
b. Excludes values for rat 7253, which was moribund sacrificed on day 62 postweaning.
c. Excludes values for dam 7293, which did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Excludes values for dam 7295, which was found dead on day 22 of gestation.
e. Excludes a value that was not recorded.
* Significantly different from the carrier group value ($p \leq 0.05$).
** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E30 (PAGE 1): NECROPSY OBSERVATIONS - SUMMARY - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
LITTERS EXAMINED (N)		20	27	28	25
TOTAL PUPS STILLBORN OR FOUND DEAD a,b	N	5	4	13	11
STILLBORN	N	1	0	4	6
FOUND DEAD	N	4	4	9	5
NO MILK IN STOMACH c	N(%)	2(50.0)	2(50.0)	8(88.9)	4(80.0)
PUPS SACRIFICED AND NECROPSIED ON DAY 21 POSTPARTUM b					
LITTERS EVALUATED	N	20	27	28	25
PUPS EVALUATED	N	115	161	164	145
APPEARED NORMAL					
LITTER INCIDENCE	N(%)	19(95.0)	27(100.0)	28(100.0)	24(96.0)
PUP INCIDENCE	N(%)	114(99.1)	161(100.0)	164(100.0)	142(97.9)
KIDNEYS: RIGHT AND/OR LEFT, PELVIS, SLIGHT TO EXTREME DILATION					
LITTER INCIDENCE	N(%)	1(5.0)	0(0.0)	0(0.0)	1(4.0)
PUP INCIDENCE	N(%)	1(0.9)	0(0.0)	0(0.0)	3(2.1)
KIDNEYS: LEFT, SMALL					
LITTER INCIDENCE	N(%)	0(0.0)	0(0.0)	0(0.0)	1(4.0)
PUP INCIDENCE	N(%)	0(0.0)	0(0.0)	0(0.0)	2(1.4)

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation.
b. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.
c. Analysis restricted to pups found dead and necropsied.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E31 (PAGE 1): ORGAN WEIGHTS - SUMMARY - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PUPS EXAMINED	N	59	80	82	72
BRAIN	MEAN±S.D.	1.48 ± 0.07	1.48 ± 0.08	1.49 ± 0.08	1.47 ± 0.07
SPLEEN	MEAN±S.D.	0.16 ± 0.05	0.14 ± 0.04	0.15 ± 0.05	0.16 ± 0.06
THYMUS	MEAN±S.D.	0.20 ± 0.05	0.18 ± 0.04*	0.20 ± 0.08	0.19 ± 0.06
THYROID/PARATHYROID	MEAN±S.D.	0.009 ± 0.002 [58]a	0.008 ± 0.004*	0.010 ± 0.005	0.009 ± 0.002 [70]a,b

[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for pups that had thyroid/parathyroid damaged (weight affected).

b. Excludes a value that was not recorded.

* Significantly different from the carrier group value ($p \leq 0.05$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E32 (PAGE 1): ORGAN WEIGHTS - SUMMARY - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP		1	2	3	4
MATERNAL TARGET DOSAGE (MG/KG/DAY)		0 (CARRIER)	0.3	3.0	30.0
PUPS EXAMINED	N	56	81	82	73
BRAIN	MEAN±S.D.	1.43 ± 0.08	1.44 ± 0.07	1.45 ± 0.08	1.42 ± 0.08
SPLEEN	MEAN±S.D.	0.16 ± 0.05	0.14 ± 0.04	0.15 ± 0.04	0.16 ± 0.07
THYMUS	MEAN±S.D.	0.21 ± 0.05	0.18 ± 0.04**	0.20 ± 0.06	0.19 ± 0.06
THYROID/PARATHYROID	MEAN±S.D.	0.008 ± 0.002	0.008 ± 0.003	0.010 ± 0.005	0.009 ± 0.002*
		[54]a		[80]b	[72]a

[ ] = NUMBER OF VALUES AVERAGED

a. Excludes values for pups that had thyroid/parathyroid damaged (weight affected).

b. Excludes values that were not recorded.

* Significantly different from the carrier group value ($p \leq 0.05$).

** Significantly different from the carrier group value ($p \leq 0.01$).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 1): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
7201		NO ADVERSE FINDINGS
7202		NO ADVERSE FINDINGS
7203		NO ADVERSE FINDINGS
7204		NO ADVERSE FINDINGS
7205		NO ADVERSE FINDINGS
7206		NO ADVERSE FINDINGS
7207		NO ADVERSE FINDINGS
7208	DP(78)	SWOLLEN SNOUT
	DP(79)	SWELLING RESOLVED
	DP(78)	LABORED BREATHING
	DP(78- 90)	CHROMODACRYORRHEA
	DP(80- 82)	LABORED BREATHING
	DP(82- 84)	DEHYDRATION
	DP(82- 90)	SWOLLEN SNOUT
	DG(0- 3)	SWOLLEN SNOUT
	DG(4)	SWELLING RESOLVED
	DG(0- 8)	CHROMODACRYORRHEA
	DG(8- 11)	INCISORS: MISALIGNED
	DG(12)	INCISORS: REALIGNED
	DG(10- 21)	CHROMODACRYORRHEA
	DG(16)	LACRIMATION
	DL(1- 21)	CHROMODACRYORRHEA
7209	DP(78- 79)	CHROMORHINORRHEA
	DP(78- 83)	INCISORS: MISALIGNED
	DP(82- 83)	INCISORS: MISSING/BROKEN
	DG(0- 7)	INCISORS: MISALIGNED
	DG(8)	INCISORS: REALIGNED
	DG(0- 7)	INCISORS: MISSING/BROKEN
	DG(8)	INCISORS: GROWN IN
	DG(8)	CHROMORHINORRHEA
	DG(8- 25)	CHROMODACRYORRHEA a
	DG(10- 25)	INCISORS: MISALIGNED a
	DG(15- 22)	INCISORS: MISSING/BROKEN
	DG(23)	INCISORS: GROWN IN

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 2): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
7210	DP(8- 84)	EXOPHTHALMOS
	DP(14- 55)	DILATED PUPIL
	DP(56)	PUPIL DILATION NOT APPARENT
	DP(14- 84)	CORNEAL OPACITY
	DG(0- 20)	EXOPHTHALMOS
	DG(0- 20)	CORNEAL OPACITY
	DL(1- 21)	EXOPHTHALMOS
	DL(1- 21)	CORNEAL OPACITY
7211		NO ADVERSE FINDINGS
7212		NO ADVERSE FINDINGS
7213	DL(17)	SOFT OR LIQUID FECES
7214	DP(67)	CHROMODACRYORRHEA
	DG(2- 7)	INCISORS: MISSING/BROKEN
	DG(8)	INCISORS: GROWN IN
	DG(4- 7)	INCISORS: MISALIGNED
	DG(8)	INCISORS: REALIGNED
7215	DP(75- 85)	INCISORS: MISALIGNED
	DP(76- 85)	INCISORS: MISSING/BROKEN
	DP(77- 85)	CHROMODACRYORRHEA
	DG(0- 1)	INCISORS: MISSING/BROKEN
	DG(2)	INCISORS: GROWN IN
	DG(0- 4)	CHROMODACRYORRHEA
	DG(0- 21)	INCISORS: MISALIGNED
	DG(7- 12)	CHROMODACRYORRHEA
	DG(20)	CHROMODACRYORRHEA
	DL(1- 21)	CHROMODACRYORRHEA a
	DL(1- 21)	INCISORS: MISALIGNED a
	DL(13- 21)	INCISORS: MISSING/BROKEN a
7216		NO ADVERSE FINDINGS
7217		NO ADVERSE FINDINGS
7218	DL(3- 21)	EAR(S) SWOLLEN AND PURPLE
	DL(17- 18)	SOFT OR LIQUID FECES
7219		NO ADVERSE FINDINGS
7220	DP(36- 38)	CHROMORHINORRHEA

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 3): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
7221	DP(66- 69)	INCISORS: MISSING/BROKEN
	DP(70)	INCISORS: GROWN IN
7222		NO ADVERSE FINDINGS
7223		NO ADVERSE FINDINGS
7224	DP(47)	CHROMORHINORRHEA
	DP(47- 49)	CHROMODACRYORRHEA
	DP(47- 51)	INCISORS: MISALIGNED
	DP(52)	INCISORS: REALIGNED
	DP(47- 58)	INCISORS: MISSING/BROKEN
	DP(59)	INCISORS: GROWN IN
	DG(14- 21)	INCISORS: MISSING/BROKEN
	DL(1- 21)	INCISORS: MISSING/BROKEN a
7225	DP(60- 70)	INCISORS: MISSING/BROKEN
	DP(71)	INCISORS: GROWN IN
7226	DP(60- 79)	INCISORS: MISALIGNED
	DG(0- 14)	INCISORS: MISALIGNED
	DG(15)	INCISORS: REALIGNED
	DG(4- 7)	INCISORS: MISSING/BROKEN
	DG(8)	INCISORS: GROWN IN
	DG(16- 21)	INCISORS: MISSING/BROKEN
	DL(1- 3)	INCISORS: MISSING/BROKEN
	DL(4)	INCISORS: GROWN IN
	DL(4- 21)	INCISORS: MISALIGNED a
	DL(11- 21)	INCISORS: MISSING/BROKEN a
	DL(20)	INCISORS: GROWN IN
7227	DP(52- 81)	LOCALIZED ALOPECIA: LIMBS
	DG(0- 11)	LOCALIZED ALOPECIA: LIMBS
	DG(11)	ALOPECIA NO LONGER APPARENT
	DG(14- 21)	LOCALIZED ALOPECIA: LIMBS
	DL(1)	ALOPECIA NO LONGER APPARENT
	DL(20- 21)	LOCALIZED ALOPECIA: LIMBS a

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 4): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
RAT #		DESCRIPTION
7228	DL(1)	RED PERIVAGINAL SUBSTANCE
	DL(9)	CHROMORHINORRHEA
	DL(10- 21)	LOCALIZED ALOPECIA: LIMBS a
7229	DP(65- 72)	EAR(S) SWOLLEN AND PURPLE
	DG(0- 21)	EAR(S) SWOLLEN AND PURPLE
	DL(1- 21)	EAR(S) SWOLLEN AND PURPLE
7230		NO ADVERSE FINDINGS

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 5): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
7231		NO ADVERSE FINDINGS
7232		NO ADVERSE FINDINGS
7233		NO ADVERSE FINDINGS
7234		NO ADVERSE FINDINGS
7235	DP(66)	CHROMORHINORRHEA
7236		NO ADVERSE FINDINGS
7237		NO ADVERSE FINDINGS
7238		NO ADVERSE FINDINGS
7239	DP(26- 47)	NECK: LESION (DID NOT EXCEED 1.5 CM IN DIAMETER)
	DP(48)	LESION HEALED
	DP(33- 38)	BACK: LESION (1.0 CM IN DIAMETER)
	DP(39)	LESION HEALED
	DP(39- 42)	LOCALIZED ALOPECIA: BACK
	DP(43)	ALOPECIA NO LONGER APPARENT
	DP(48- 54)	LOCALIZED ALOPECIA: NECK
	DP(55)	ALOPECIA NO LONGER APPARENT
7240	DP(1- 4)	CHROMORHINORRHEA
7241		NO ADVERSE FINDINGS
7242		NO ADVERSE FINDINGS
7243	DP(59- 66)	INCISORS: MISSING/BROKEN
	DP(67)	INCISORS: GROWN IN
	DP(67- 68)	CHROMODACRYORRHEA
	DP(67- 71)	INCISORS: MISALIGNED
	DP(72)	INCISORS: REALIGNED
	DP(78- 79)	INCISORS: MISALIGNED
	DP(80)	INCISORS: REALIGNED
	DP(109-120)	INCISORS: MISALIGNED a
	DP(114-120)	INCISORS: MISSING/BROKEN a
7244		NO ADVERSE FINDINGS
7245	DP(69- 83)	INCISORS: MISALIGNED
	DG(0- 21)	INCISORS: MISALIGNED
	DL(1- 21)	INCISORS: MISALIGNED a
	DL(4- 21)	CHROMODACRYORRHEA
	DL(7- 21)	INCISORS: MISSING/BROKEN a

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 6): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 2		0.3 MG/KG/DAY
RAT #		DESCRIPTION
7246	DG(12- 17)	CHROMORHINORRHEA
	DG(12- 21)	CHROMODACRYORRHEA
	DG(12- 21)	SWOLLEN SNOUT
	DG(14- 21)	INCISORS: MISALIGNED
	DL(1- 3)	SWOLLEN SNOUT
	DL(4)	SWELLING RESOLVED
	DL(1- 4)	INCISORS: MISALIGNED
	DL(5)	INCISORS: REALIGNED
	DL(1- 5)	CHROMODACRYORRHEA
	DL(7- 21)	CHROMODACRYORRHEA a
	DL(8- 21)	INCISORS: MISALIGNED a
7247	DG(15)	CHROMORHINORRHEA
	DG(17- 20)	CHROMORHINORRHEA
7248	DL(4- 21)	LOCALIZED ALOPECIA: LIMBS a
7249		NO ADVERSE FINDINGS
7250		NO ADVERSE FINDINGS
7251		NO ADVERSE FINDINGS
7252		NO ADVERSE FINDINGS
7253	DP(23- 62)	NECK: MASS (DID NOT EXCEED 5.0 CM X 4.0 CM X 4.0 CM) a
	DP(43)	CHROMORHINORRHEA
	DP(43)	CHROMODACRYORRHEA
	DP(43- 62)	NECK: LESION (ON MASS) (DID NOT EXCEED 4.0 CM X 1.0 CM) a
	DP(60- 62)	PALE APPEARANCE
	DP(62)	MORIBUND SACRIFICED
7254		NO ADVERSE FINDINGS
7255		NO ADVERSE FINDINGS
7256	DL(15- 16)	CHROMORHINORRHEA
7257		NO ADVERSE FINDINGS
7258	DP(1- 2)	CHROMORHINORRHEA
7259		NO ADVERSE FINDINGS
7260		NO ADVERSE FINDINGS

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 7): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
7261		NO ADVERSE FINDINGS
7262		NO ADVERSE FINDINGS
7263		NO ADVERSE FINDINGS
7264	DP(68- 86)	INCISORS: MISALIGNED
	DG(0- 4)	INCISORS: MISALIGNED
	DG(5)	INCISORS: REALIGNED
	DG(2- 21)	LOCALIZED ALOPECIA: NECK
	DG(11- 21)	LOCALIZED ALOPECIA: LIMBS
	DL(1- 16)	LOCALIZED ALOPECIA: NECK
	DL(1- 21)	LOCALIZED ALOPECIA: LIMBS a
	DL(17- 21)	LOCALIZED ALOPECIA: UNDERSIDE a
7265		NO ADVERSE FINDINGS
7266		NO ADVERSE FINDINGS
7267		NO ADVERSE FINDINGS
7268	DG(3- 21)	CHROMODACRYORRHEA
	DG(3- 21)	INCISORS: MISALIGNED
	DG(5- 7)	CHROMORHINORRHEA
	DG(6- 11)	INCISORS: MISSING/BROKEN
	DG(12)	INCISORS: GROWN IN
	DL(1- 21)	CHROMODACRYORRHEA a
	DL(1- 21)	INCISORS: MISALIGNED a
7269		NO ADVERSE FINDINGS
7270		NO ADVERSE FINDINGS
7271		NO ADVERSE FINDINGS
7272	DP(67- 85)	LOCALIZED ALOPECIA: LIMBS
	DG(0- 21)	LOCALIZED ALOPECIA: LIMBS
	DL(1- 21)	LOCALIZED ALOPECIA: LIMBS a
7273	DL(14- 15)	CHROMORHINORRHEA
7274	DP(64- 72)	INCISORS: MISSING/BROKEN
	DP(73)	INCISORS: GROWN IN
7275	DP(69- 81)	TIP OF TAIL MISSING
	DG(0- 21)	TIP OF TAIL MISSING
	DL(1- 21)	TIP OF TAIL MISSING a

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 8): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
7276	DG(17- 21)	LOCALIZED ALOPECIA: LIMBS
	DG(19- 21)	CHROMODACRYORRHEA
	DG(19- 21)	INCISORS: MISALIGNED
	DL(1- 2)	INCISORS: MISALIGNED
	DL(3)	INCISORS: REALIGNED
	DL(1- 6)	LOCALIZED ALOPECIA: LIMBS
	DL(7)	ALOPECIA NO LONGER APPARENT
	DL(1- 16)	CHROMODACRYORRHEA
	DL(17- 18)	INCISORS: MISSING/BROKEN
	DL(19)	INCISORS: GROWN IN
7277		NO ADVERSE FINDINGS
7278	DP(66- 72)	INCISORS: MISALIGNED
	DP(73)	INCISORS: REALIGNED
	DP(77- 79)	EAR(S) SWOLLEN AND PURPLE
	DP(80)	SWELLING RESOLVED
	DG(7- 21)	EAR(S) SWOLLEN AND PURPLE
	DL(1- 21)	EAR(S) SWOLLEN AND PURPLE
7279	DG(19- 21)	INCISORS: MISSING/BROKEN
	DL(1)	INCISORS: GROWN IN
7280	DP(80- 83)	SWOLLEN SNOUT
	DP(84)	SWELLING RESOLVED
	DP(81- 85)	CHROMODACRYORRHEA
	DP(81- 85)	INCISORS: MISALIGNED
	DP(85)	INCISORS: MISSING/BROKEN
	DG(0)	CHROMODACRYORRHEA
	DG(0- 21)	INCISORS: MISALIGNED
	DG(0- 21)	INCISORS: MISSING/BROKEN
	DL(1- 21)	INCISORS: MISALIGNED a
	DL(1- 21)	INCISORS: MISSING/BROKEN a

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a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 9): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
7281	DP(51)	INCISORS: MISSING/BROKEN
	DP(52)	INCISORS: GROWN IN
	DP(51- 52)	CHROMODACRYORRHEA
	DP(51- 85)	INCISORS: MISALIGNED
	DP(56- 59)	CHROMODACRYORRHEA
	DP(73)	CHROMODACRYORRHEA
	DP(85)	CHROMODACRYORRHEA
	DG(0- 1)	CHROMODACRYORRHEA
	DG(0- 21)	INCISORS: MISALIGNED
	DG(10- 13)	CHROMODACRYORRHEA
	DL(1- 21)	INCISORS: MISALIGNED a
	DL(2- 21)	INCISORS: MISSING/BROKEN a
	DL(15- 21)	CHROMODACRYORRHEA a
7282		NO ADVERSE FINDINGS
7283		NO ADVERSE FINDINGS
7284	DP(31- 38)	NECK: LESION (0.5 CM IN DIAMETER)
	DP(39- 45)	NECK: TWO LESIONS (0.5 CM IN DIAMETER)
	DP(46)	LESION HEALED
	DP(39- 40)	BACK: LESION (0.5 CM IN DIAMETER)
	DP(41)	LESION HEALED
	DP(46- 49)	NECK: LESION (0.5 CM IN DIAMETER)
	DP(50)	LESION HEALED
	DP(41- 45)	LOCALIZED ALOPECIA: BACK
	DP(46)	ALOPECIA NO LONGER APPARENT
	DP(50- 61)	LOCALIZED ALOPECIA: NECK
	DP(62)	ALOPECIA NO LONGER APPARENT
7285	DG(19- 20)	INCISORS: MISALIGNED
	DL(1- 3)	INCISORS: MISALIGNED
	DL(4)	INCISORS: REALIGNED
7286	DP(2)	CHROMORHINORRHEA
	DP(36- 49)	NECK: LESION (0.5 CM IN DIAMETER)
	DP(50)	LESION HEALED
	DG(3- 4)	INCISORS: MISALIGNED
	DG(5)	INCISORS: REALIGNED
	DG(3- 10)	INCISORS: MISSING/BROKEN
	DG(11)	INCISORS: GROWN IN
7287		NO ADVERSE FINDINGS

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 10): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 3		3.0 MG/KG/DAY
RAT #		DESCRIPTION
7288	DG(21)	INCISORS: MISALIGNED
	DL(1- 16)	INCISORS: MISALIGNED
	DL(17)	INCISORS: REALIGNED
	DL(7- 16)	INCISORS: MISSING/BROKEN
	DL(17)	INCISORS: GROWN IN
7289		NO ADVERSE FINDINGS
7290	DP(52)	CHROMODACRYORRHEA
	DG(9- 25)	INCISORS: MISALIGNED a

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

ARGUS 1416-001

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 11): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
7291	DP(31- 83)	UMBILICAL HERNIA
	DG(0- 20)	UMBILICAL HERNIA
	DL(20- 21)	UMBILICAL HERNIA a
7292	DP(34- 39)	LOCALIZED ALOPECIA: NECK
	DP(40)	ALOPECIA NO LONGER APPARENT
	DP(36- 39)	HEAD: LESION (0.5 CM X 1.0 CM)
	DP(40)	LESION HEALED
	DP(79- 85)	HEAD: LESION (DID NOT EXCEED 0.4 CM IN DIAMETER)
	DG(0- 19)	HEAD: LESION (0.3 CM X 0.1 CM)
	DG(20)	LESION HEALED
7293	DP(70)	MOUTH: LESION (0.2 CM X 0.1 CM)
	DP(71)	LESION HEALED
7294		NO ADVERSE FINDINGS
7295	DP(49- 83)	LOCALIZED ALOPECIA: LIMBS
	DG(0- 21)	LOCALIZED ALOPECIA: LIMBS
	DG(21)	CHROMODACRYORRHEA a
	DG(22)	FOUND DEAD
7296	DP(54- 63)	INCISORS: MISALIGNED
	DP(64)	INCISORS: REALIGNED
	DP(80- 84)	EAR(S) SWOLLEN AND PURPLE
	DG(0- 20)	EAR(S) SWOLLEN AND PURPLE
	DL(1- 21)	EAR(S) SWOLLEN AND PURPLE
	DL(6- 13)	INCISORS: MISSING/BROKEN
	DL(14)	INCISORS: GROWN IN
	DL(17- 19)	INCISORS: MISALIGNED
	DL(20)	INCISORS: REALIGNED
7297	DL(21)	EAR(S) SWOLLEN AND PURPLE
7298	DP(30- 32)	BACK: LESION (1.0 CM IN DIAMETER)
	DP(33- 39)	BACK: TWO LESIONS (DID NOT EXCEED 1.0 CM IN DIAMETER)
	DP(40)	LESION HEALED
	DP(40- 41)	BACK: LESION (0.5 CM IN DIAMETER)
	DP(42)	LESION HEALED
	DL(21)	SOFT OR LIQUID FECES
7299	DP(60- 67)	INCISORS: MISALIGNED
	DP(68)	INCISORS: REALIGNED
	DP(63- 67)	INCISORS: MISSING/BROKEN
	DP(68)	INCISORS: GROWN IN
7300		NO ADVERSE FINDINGS

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a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 12): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
7301	DP(68)	LEFT FOREPAW: SWOLLEN FOURTH DIGIT
	DP(69)	SWELLING RESOLVED
7302	DG(7- 10)	INCISORS: MISALIGNED
	DG(11)	INCISORS: REALIGNED
7303	DG(17- 21)	CHROMODACRYORRHEA
	DG(17- 21)	INCISORS: MISALIGNED
	DL(1- 21)	CHROMODACRYORRHEA a
	DL(1- 21)	INCISORS: MISALIGNED a
7304		NO ADVERSE FINDINGS
7305		NO ADVERSE FINDINGS
7306		NO ADVERSE FINDINGS
7307		NO ADVERSE FINDINGS
7308		NO ADVERSE FINDINGS
7309	DL(4- 13)	CHROMODACRYORRHEA
7310	DP(61- 63)	INCISORS: MISSING/BROKEN
	DP(64)	INCISORS: GROWN IN
	DL(21)	EAR(S) SWOLLEN AND PURPLE
7311	DP(58- 59)	INCISORS: MISSING/BROKEN
	DP(60)	INCISORS: GROWN IN
	DP(75- 81)	INCISORS: MISSING/BROKEN
	DG(0)	INCISORS: MISSING/BROKEN
	DG(1)	INCISORS: GROWN IN
	DL(3- 13)	INCISORS: MISSING/BROKEN
	DL(14)	INCISORS: GROWN IN
7312		NO ADVERSE FINDINGS
7313	DL(3)	RED PERIVAGINAL SUBSTANCE
7314		NO ADVERSE FINDINGS
7315	DP(2)	CHROMORHINORRHEA

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E33 (PAGE 13): CLINICAL OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP 4		30.0 MG/KG/DAY
RAT #		DESCRIPTION
7316	DP(46- 48)	CHROMODACRYORRHEA
	DP(46- 78)	INCISORS: MISALIGNED
	DP(79)	INCISORS: REALIGNED
	DP(50- 60)	CHROMODACRYORRHEA
	DP(65- 68)	CHROMODACRYORRHEA
	DP(73)	CHROMODACRYORRHEA
	DP(76- 82)	CHROMODACRYORRHEA
	DP(79- 82)	INCISORS: MISSING/BROKEN
	DG(0- 11)	CHROMODACRYORRHEA
	DG(0- 21)	INCISORS: MISSING/BROKEN
	DG(13- 21)	CHROMODACRYORRHEA
	DG(14- 21)	LOCALIZED ALOPECIA: LIMBS
	DG(19- 21)	INCISORS: MISALIGNED
	DL(1- 21)	CHROMODACRYORRHEA a
	DL(1- 21)	INCISORS: MISALIGNED a
	DL(1- 21)	INCISORS: MISSING/BROKEN a
	DL(1- 21)	LOCALIZED ALOPECIA: LIMBS a
	DL(14- 21)	LOCALIZED ALOPECIA: UNDERSIDE a
7317	DG(15)	CHROMORHINORRHEA
7318	DG(15- 21)	INCISORS: MISSING/BROKEN
	DL(1- 3)	INCISORS: MISALIGNED
	DL(4)	INCISORS: REALIGNED
	DL(1- 3)	INCISORS: MISSING/BROKEN
	DL(4)	INCISORS: GROWN IN
7319		NO ADVERSE FINDINGS
7320		NO ADVERSE FINDINGS

DP = DAY POSTWEANING DG = DAY OF PRESUMED GESTATION DL = DAY OF LACTATION
a. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E34 (PAGE 1): BODY WEIGHTS - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	PRECOHABITATION BODY WEIGHT a
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY				
7201	38.	72.	115.	142.	176.	194.	206.	216.	229.	246.	257.
7202	41.	76.	118.	157.	188.	207.	224.	244.	246.	250.	267.
7203	42.	81.	128.	166.	201.	227.	249.	260.	278.	286.	305.
7204	47.	82.	121.	153.	178.	189.	205.	216.	223.	232.	242.
7205	50.	80.	121.	152.	183.	210.	227.	235.	248.	256.	283.
7206	48.	80.	121.	151.	179.	201.	217.	232.	252.	258.	270.
7207	46.	83.	140.	177.	216.	245.	253.	272.	281.	293.	311.
7208	34.	70.	123.	156.	198.	225.	242.	253.	269.	282.	232.
7209	36.	68.	110.	154.	185.	211.	242.	255.	277.	292.	309.
7210	36.	74.	116.	148.	185.	194.	222.	235.	246.	258.	288.
7211	31.	71.	114.	149.	176.	199.	208.	217.	202.	239.	252.
7212	35.	72.	116.	154.	175.	204.	217.	237.	241.	256.	267.
7213	44.	84.	131.	171.	198.	228.	257.	271.	286.	291.	307.
7214	38.	73.	124.	160.	196.	218.	238.	254.	258.	274.	280.
7215	34.	63.	105.	139.	169.	190.	216.	222.	239.	248.	274.
7216	42.	76.	123.	162.	204.	241.	263.	267.	300.	303.	308.
7217	36.	71.	116.	161.	200.	226.	242.	254.	271.	269.	286.
7218	34.	63.	102.	142.	176.	197.	214.	231.	249.	252.	264.
7219	40.	86.	134.	171.	200.	216.	235.	248.	249.	267.	269.
7220	48.	90.	137.	180.	219.	233.	280.	281.	305.	324.	341.
7221	49.	96.	153.	187.	217.	239.	267.	276.	290.	312.	309.
7222	42.	86.	138.	183.	205.	237.	262.	277.	285.	305.	313.
7223	50.	97.	151.	183.	214.	240.	274.	281.	287.	304.	312.
7224	68.	112.	161.	202.	228.	248.	275.	274.	298.	316.	338.
7225	44.	101.	158.	200.	226.	244.	268.	276.	284.	288.	304.
7226	51.	93.	140.	193.	210.	232.	266.	268.	275.	276.	292.
7227	46.	91.	119.	177.	196.	210.	231.	240.	248.	255.	269.
7228	55.	105.	162.	200.	218.	240.	250.	263.	276.	277.	284.
7229	43.	81.	132.	166.	196.	228.	245.	258.	262.	270.	278.
7230	46.	86.	133.	144.	192.	218.	231.	255.	253.	266.	272.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E34 (PAGE 2): BODY WEIGHTS - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1	8	15	22	29	36	43	50	57	64	PRECOHABITATION BODY WEIGHT a
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY				
7231	46.	87.	133.	178.	215.	241.	258.	280.	291.	296.	341.
7232	56.	98.	159.	201.	229.	254.	274.	292.	302.	316.	329.
7233	46.	92.	156.	188.	222.	242.	273.	291.	295.	294.	315.
7234	35.	72.	120.	156.	188.	217.	244.	254.	261.	280.	299.
7235	50.	88.	136.	177.	212.	233.	256.	263.	268.	282.	308.
7236	40.	86.	131.	166.	202.	212.	238.	251.	261.	276.	289.
7237	47.	88.	139.	172.	205.	224.	239.	248.	260.	268.	285.
7238	45.	89.	137.	172.	200.	226.	239.	250.	258.	260.	281.
7239	45.	103.	130.	173.	200.	222.	243.	259.	267.	282.	296.
7240	39.	98.	123.	162.	190.	220.	231.	218.	255.	267.	279.
7241	61.	121.	142.	177.	198.	206.	227.	241.	247.	248.	265.
7242	48.	91.	139.	177.	206.	229.	248.	261.	275.	285.	301.
7243	38.	79.	132.	170.	210.	242.	261.	273.	303.	311.	317.
7244	39.	84.	134.	176.	211.	228.	249.	267.	281.	284.	319.
7245	39.	72.	133.	195.	219.	244.	266.	296.	304.	285.	324.
7246	38.	79.	120.	153.	177.	191.	197.	239.	239.	244.	257.
7247	46.	84.	128.	167.	192.	208.	226.	232.	245.	257.	267.
7248	44.	89.	146.	181.	216.	244.	275.	281.	295.	319.	335.
7249	39.	75.	123.	160.	190.	212.	238.	234.	268.	275.	296.
7250	43.	87.	139.	174.	209.	230.	264.	272.	277.	321.	311.
7251	43.	86.	138.	178.	204.	217.	241.	251.	259.	272.	282.
7252	35.	69.	113.	153.	182.	203.	219.	250.	277.	282.	312.
7253	58.	100.	148.	180.	212.	236.	242.	242.	262.	b	
7254	56.	94.	141.	172.	192.	226.	250.	255.	261.	272.	286.
7255	37.	71.	116.	146.	169.	189.	219.	230.	236.	253.	284.
7256	44.	87.	146.	180.	216.	235.	268.	283.	293.	304.	321.
7257	50.	95.	152.	180.	205.	235.	254.	260.	270.	282.	298.
7258	44.	92.	141.	171.	203.	229.	263.	263.	266.	284.	285.
7259	35.	70.	118.	160.	192.	230.	254.	263.	278.	282.	287.
7260	34.	71.	122.	162.	198.	220.	247.	260.	270.	280.	291.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.
b. Rat 7253 was moribund sacrificed on day 62 postweaning.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E34 (PAGE 3): BODY WEIGHTS - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1	8	15	22	29	36	43	50	57	64	PRECOHABITATION BODY WEIGHT a
RAT #	DOSAGE GROUP 3						3.0 MG/KG/DAY				
7261	44.	82.	120.	152.	185.	207.	222.	242.	252.	256.	272.
7262	46.	88.	137.	178.	203.	225.	236.	258.	270.	272.	286.
7263	46.	84.	128.	162.	194.	207.	213.	234.	241.	260.	258.
7264	36.	74.	122.	160.	189.	214.	230.	247.	255.	282.	291.
7265	48.	89.	145.	192.	236.	268.	294.	303.	328.	340.	365.
7266	51.	97.	147.	180.	206.	245.	247.	267.	267.	284.	294.
7267	42.	82.	132.	167.	200.	232.	254.	279.	285.	296.	324.
7268	44.	87.	131.	165.	200.	226.	236.	253.	257.	272.	285.
7269	28.	61.	106.	153.	185.	216.	238.	284.	273.	290.	306.
7270	39.	75.	122.	160.	203.	222.	258.	278.	299.	326.	355.
7271	44.	92.	116.	163.	189.	214.	240.	248.	261.	267.	301.
7272	60.	136.	166.	203.	233.	264.	280.	292.	315.	331.	336.
7273	31.	71.	116.	153.	180.	215.	239.	257.	270.	264.	290.
7274	56.	103.	155.	195.	237.	256.	281.	304.	318.	310.	340.
7275	40.	79.	118.	157.	193.	216.	229.	242.	249.	261.	263.
7276	34.	71.	124.	160.	188.	202.	208.	230.	250.	269.	277.
7277	38.	76.	122.	154.	184.	212.	236.	244.	256.	272.	280.
7278	33.	70.	125.	151.	183.	207.	233.	245.	262.	266.	287.
7279	40.	79.	125.	163.	194.	221.	243.	246.	258.	271.	282.
7280	41.	79.	124.	158.	187.	211.	232.	235.	248.	256.	261.
7281	44.	91.	139.	177.	197.	223.	242.	252.	249.	266.	279.
7282	48.	93.	143.	184.	212.	248.	274.	294.	313.	330.	339.
7283	38.	73.	117.	166.	192.	216.	235.	251.	259.	278.	285.
7284	44.	78.	121.	162.	194.	217.	245.	257.	272.	290.	288.
7285	40.	79.	119.	150.	175.	196.	217.	221.	236.	253.	271.
7286	36.	75.	123.	164.	188.	219.	249.	265.	282.	303.	312.
7287	61.	106.	154.	182.	207.	234.	259.	267.	285.	287.	321.
7288	46.	88.	140.	179.	208.	238.	268.	270.	279.	298.	301.
7289	54.	102.	144.	183.	212.	230.	266.	270.	284.	302.	312.
7290	69.	118.	169.	202.	231.	261.	279.	289.	307.	325.	341.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 100 to 104 days of age.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E34 (PAGE 4): BODY WEIGHTS - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1	8	15	22	29	36	43	50	57	64	PRECOHABITATION BODY WEIGHT a
RAT #	DOSAGE GROUP 4						30.0 MG/KG/DAY				
7291	43.	77.	133.	172.	203.	228.	249.	266.	278.	286.	307.
7292	45.	84.	143.	17[illegible].	200.	230.	260.	270.	281.	288.	327.
7293	53.	95.	149.	16[illegible].	191.	212.	234.	247.	260.	272.	292.
7294	42.	83.	146.	180.	208.	245.	269.	275.	300.	306.	325.
7295	43.	84.	142.	179.	214.	257.	276.	294.	311.	318.	341.
7296	49.	87.	147.	174.	202.	224.	225.	258.	263.	265.	287.
7297	46.	83.	142.	172.	204.	230.	243.	251.	265.	272.	280.
7298	38.	77.	143.	173.	207.	247.	262.	276.	278.	288.	306.
7299	36.	68.	114.	152.	183.	208.	221.	232.	247.	258.	281.
7300	45.	88.	135.	179.	211.	244.	263.	268.	282.	288.	313.
7301	56.	94.	141.	182.	200.	220.	240.	254.	246.	262.	267.
7302	37.	79.	128.	177.	211.	250.	279.	292.	301.	315.	332.
7303	39.	81.	138.	188.	228.	253.	280.	286.	299.	317.	334.
7304	41.	78.	122.	161.	191.	215.	229.	254.	259.	270.	284.
7305	36.	71.	122.	154.	198.	212.	233.	245.	265.	265.	299.
7306	39.	78.	137.	166.	201.	220.	244.	258.	268.	275.	280.
7307	47.	89.	149.	177.	202.	224.	248.	262.	268.	276.	286.
7308	44.	81.	134.	166.	196.	217.	239.	252.	275.	262.	286.
7309	40.	80.	134.	166.	200.	219.	246.	262.	276.	285.	300.
7310	38.	78.	136.	176.	214.	246.	269.	285.	305.	308.	320.
7311	34.	74.	127.	170.	192.	223.	249.	257.	270.	287.	298.
7312	46.	88.	140.	168.	200.	220.	245.	250.	252.	252.	308.
7313	38.	77.	122.	161.	190.	213.	232.	238.	242.	257.	269.
7314	40.	81.	134.	171.	195.	223.	235.	251.	261.	273.	280.
7315	43.	82.	131.	164.	187.	203.	227.	230.	242.	246.	254.
7316	55.	107.	156.	198.	230.	253.	273.	291.	292.	308.	317.
7317	47.	88.	136.	171.	198.	219.	233.	244.	245.	262.	274.
7318	50.	94.	140.	166.	187.	210.	234.	236.	242.	260.	273.
7319	51.	103.	160.	202.	238.	278.	306.	336.	346.	368.	391.
7320	61.	98.	143.	185.	216.	243.	268.	282.	299.	313.	311.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Precohabitation body weights were recorded on the day cohabitation was begun in the F1 generation rats; at that time these rats were 91 to 104 days of age.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E35 (PAGE 1): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25
RAT #	DOSAGE GROUP 1				0 (CARRIER) MG/KG/DAY
7201 NP	259.	282.	273.	274.	279.
7202 P	267.	300.	349.	454.	
7203 NP	306.	334.	354.	330.	335.
7204 P	239.	265.	296.	385.	
7205 P	260.	291.	322.	407.	
7206 NP	275.	299.	303.	296.	307.
7207 NP	310.	328.	327.	326.	320.
7208 P	284.	314.	340.	431.	
7209 NP	290.	321.	317.	301.	310.
7210 P	282.	316.	353.	a	
7211 P	242.	277.	307.	381.	
7212 P b	269.	301.	325.	307.	292.
7213 P	302.	343.	380.	491.	
7214 P	267.	303.	340.	448.	
7215 P	281.	309.	343.	452.	
7216 P	302.	329.	369.	463.	
7217 P	282.	301.	339.	437.	
7218 P	257.	286.	325.	434.	
7219 P	264.	309.	346.	433.	
7220 NP	338.	381.	392.	365.	365.
7221 NP	304.	360.	381.	376.	362.
7222 NP	322.	346.	345.	339.	334.
7223 P	316.	354.	387.	416.	
7224 P	330.	357.	394.	484.	
7225 P	298.	325.	358.	458.	
7226 P	286.	322.	353.	444.	
7227 P	269.	309.	346.	451.	
7228 P	296.	321.	367.	a	
7229 P	275.	315.	351.	462.	
7230 NP	MATING NOT CONFIRMED				

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value not recorded; dam in the process of delivering.
b. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E35 (PAGE 2): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25
RAT #	DOSAGE GROUP 2				0.3 MG/KG/DAY
7231 P	323.	366.	397.	478.	
7232 P	324.	359.	389.	485.	
7233 P	329.	368.	420.	530.	
7234 P	293.	325.	371.	464.	
7235 P	306.	328.	375.	460.	
7236 P	284.	324.	357.	463.	
7237 P	284.	308.	339.	440.	
7238 P	279.	318.	344.	447.	
7239 P	287.	318.	346.	442.	
7240 P	276.	296.	319.	419.	
7241 P	273.	309.	348.	428.	
7242 P	307.	330.	366.	446.	
7243 NP	MATING NOT CONFIRMED				
7244 P	308.	347.	378.	479.	
7245 P	318.	384.	402.	527.	
7246 P	262.	320.	317.	402.	
7247 P	259.	289.	324.	401.	
7248 P	322.	360.	392.	505.	
7249 P	292.	327.	353.	456.	
7250 P	316.	349.	386.	480.	
7251 P	279.	305.	332.	419.	
7252 P	300.	332.	371.	444.	
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING				
7254 P	277.	311.	340.	447.	
7255 P	270.	305.	346.	434.	
7256 P	322.	360.	392.	488.	
7257 P	298.	325.	367.	469.	
7258 P	292.	319.	364.	455.	
7259 P	293.	319.	368.	471.	
7260 NP	290.	324.	331.	318.	321.

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E35 (PAGE 3): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25
RAT #	DOSAGE GROUP 3				3.0 MG/KG/DAY
7261 NP	271.	284.	292.	283.	286.
7262 P	298.	328.	366.	467.	
7263 P	268.	293.	334.	427.	
7264 P	284.	332.	373.	451.	
7265 P	356.	395.	421.	524.	
7266 P	289.	305.	346.	438.	
7267 P	314.	344.	383.	464.	
7268 P	284.	234.	299.	384.	
7269 P	299.	340.	381.	468.	
7270 P	350.	396.	432.	522.	
7271 P	295.	336.	372.	478.	
7272 P	343.	363.	413.	513.	
7273 P	277.	326.	360.	461.	
7274 P	341.	375.	412.	526.	
7275 P	263.	312.	348.	469.	
7276 P	269.	305.	330.	364.	
7277 P	277.	314.	348.	423.	
7278 P	284.	309.	354.	447.	
7279 P	278.	330.	365.	468.	
7280 P	255.	280.	325.	396.	
7281 P	277.	322.	298.	438.	
7282 P	338.	376.	411.	a	
7283 P	287.	325.	363.	458.	
7284 P	289.	324.	361.	410.	
7285 P	266.	307.	339.	a	
7286 P	320.	355.	392.	512.	
7287 P	307.	348.	393.	505.	
7288 P	306.	337.	360.	475.	
7289 P	310.	350.	381.	452.	
7290 NP	327.	379.	375.	366.	364.

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value not recorded; dam in the process of delivering.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E35 (PAGE 4): MATERNAL BODY WEIGHTS - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAY 0	7	14	21	25	
RAT #	DOSAGE GROUP 4					30.0 MG/KG/DAY
7291 P	299.	329.	354.	461.		
7292 P	321.	357.	396.	492.		
7293 P a	285.	326.	361.	349.	353.	
7294 P	336.	346.	383.	500.		
7295 P	337.	369.	398.	474.	FOUND DEAD ON DAY 22 OF GESTATION	
7296 P	280.	318.	359.	441.		
7297 P	277.	304.	336.	421.		
7298 P	302.	328.	370.	462.		
7299 P	278.	310.	345.	456.		
7300 P	308.	351.	391.	b		
7301 P	280.	300.	327.	422.		
7302 P	324.	381.	416.	534.		
7303 P	337.	369.	417.	464.		
7304 P	281.	331.	366.	b		
7305 NP	291.	322.	334.	325.	339.	
7306 P	288.	318.	361.	470.		
7307 NP	294.	332.	317.	338.	317.	
7308 P	296.	316.	359.	443.		
7309 P	298.	322.	363.	437.		
7310 P	319.	355.	403.	516.		
7311 P	291.	322.	358.	450.		
7312 P	303.	324.	366.	484.		
7313 P	262.	305.	334.	381.		
7314 P	272.	305.	344.	393.		
7315 P	253.	293.	339.	424.		
7316 P	311.	361.	400.	470.		
7317 P	265.	308.	344.	444.		
7318 P	264.	301.	328.	426.		
7319 NP	386.	410.	426.	415.	405.	
7320 P	305.	350.	385.	472.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAY = DAY OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
b. Value not recorded; dam in the process of delivering.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E36 (PAGE 1): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAM #	DOSAGE GROUP 1					0 (CARRIER) MG/KG/DAY
	DAY 1	4	7	10	14	21
7201	NOT PREGNANT					
7202	325.	336.	358.	383.	330.	371.
7203	NOT PREGNANT					
7204	280.	280.	280.	308.	322.	312.
7205	302.	296.	315.	328.	306.	337.
7206	NOT PREGNANT					
7207	NOT PREGNANT					
7208	322.	339.	344.	348.	349.	350.
7209	NOT PREGNANT					
7210	331.	313.	335.	363.	323.	370.
7211	266.	263.	253.	324.	304.	343.
7212a						
7213	338.	370.	404.	385.	374.	381.
7214	324.	329.	333.	348.	330.	330.
7215	322.	329.	352.	341.	341.	353.
7216	356.	349.	352.	350.	341.	351.
7217	323.	320.	337.	353.	330.	328.
7218	296.	324.	346.	371.	335.	344.
7219	344.	345.	345.	388.	372.	383.
7220	NOT PREGNANT					
7221	NOT PREGNANT					
7222	NOT PREGNANT					
7223	380.	385.	391.	395.	386.	380.
7224	375.	359.	357.	376.	356.	350.
7225	338.	343.	367.	386.	347.	359.
7226	324.	335.	344.	386.	336.	365.
7227	324.	334.	360.	377.	327.	352.
7228	355.	344.	364.	362.	351.	360.
7229	342.	361.	372.	384.	333.	362.
7230	MATING NOT CONFIRMED					

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E36 (PAGE 2): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1	4	7	10	14	21
DAM #	DOSAGE GROUP 2					0.3 MG/KG/DAY
7231	379.	385.	401.	399.	405.	396.
7232	344.	310.	350.	362.	372.	387.
7233	386.	384.	403.	392.	372.	388.
7234	350.	339.	356.	369.	362.	353.
7235	350.	338.	365.	383.	357.	356.
7236	343.	350.	365.	381.	358.	364.
7237	302.	335.	362.	355.	286.	368.
7238	308.	337.	359.	364.	371.	350.
7239	313.	327.	361.	379.	388.	a
7240	302.	309.	314.	329.	336.	361.
7241	296.	302.	326.	347.	345.	356.
7242	344.	345.	366.	370.	358.	347.
7243	MATING NOT CONFIRMED					
7244	355.	367.	374.	370.	383.	353.
7245	390.	385.	409.	415.	362.	376.
7246	297.	310.	320.	332.	338.	340.
7247	316.	319.	355.	365.	352.	360.
7248	366.	345.	365.	397.	345.	349.
7249	338.	327.	372.	389.	336.	342.
7250	372.	378.	382.	397.	408.	389.
7251	302.	316.	331.	341.	282.	298.
7252	339.	328.	349.	365.	370.	360.
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING					
7254	304.	292.	297.	329.	330.	340.
7255	316.	320.	322.	338.	354.	335.
7256	342.	355.	378.	406.	394.	388.
7257	350.	358.	381.	388.	358.	393.
7258	338.	354.	384.	377.	399.	386.
7259	326.	336.	338.	346.	351.	350.
7260	NOT PREGNANT					

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E36 (PAGE 3): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1	4	7	10	14	21
DAM #	DOSAGE GROUP 3					3.0 MG/KG/DAY
7261	NOT PREGNANT					
7262	327.	318.	331.	334.	309.	352.
7263	306.	296.	306.	319.	338.	344.
7264	321.	335.	348.	356.	378.	364.
7265	402.	381.	386.	384.	389.	386.
7266	321.	308.	315.	338.	344.	352.
7267	360.	355.	367.	381.	382.	372.
7268	290.	288.	294.	311.	320.	348.
7269	365.	364.	392.	414.	357.	368.
7270	408.	397.	411.	406.	405.	382.
7271	355.	372.	387.	395.	411.	389.
7272	381.	386.	381.	385.	407.	402.
7273	330.	334.	347.	357.	367.	368.
7274	385.	383.	398.	434.	396.	405.
7275	327.	333.	338.	338.	325.	346.
7276	268.	284.	296.	318.	321.	334.
7277	336.	335.	358.	369.	360.	358.
7278	330.	346.	354.	384.	336.	377.
7279	328.	337.	305.	356.	326.	371.
7280	318.	315.	323.	331.	332.	341.
7281	322.	331.	340.	340.	355.	329.
7282	401.	393.	411.	410.	412.	407.
7283	329.	326.	341.	362.	363.	366.
7284	350.	339.	348.	343.	343.	349.
7285	316.	313.	339.	343.	317.	373.
7286	357.	379.	393.	392.	384.	376.
7287	394.	382.	393.	390.	393.	402.
7288	342.	370.	390.	396.	369.	363.
7289	370.	369.	392.	403.	388.	381.
7290	NOT PREGNANT					

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E36 (PAGE 4): MATERNAL BODY WEIGHTS - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1	4	7	10	14	21
DAM #	DOSAGE GROUP 4					30.0 MG/KG/DAY
7291	338.	349.	340.	358.	369.	375.
7292	350.	362.	361.	371.	390.	350.
7293a						
7294	352.	344.	381.	382.	364.	386.
7295	FOUND DEAD ON DAY 22 OF GESTATION					
7296	359.	339.	338.	356.	364.	370.
7297	329.	331.	348.	365.	349.	353.
7298	346.	342.	351.	393.	346.	342.
7299	321.	324.	343.	366.	367.	356.
7300	387.	380.	355.	404.	368.	392.
7301	316.	321.	336.	328.	334.	347.
7302	380.	387.	355.	420.	390.	399.
7303	359.	353.	345.	380.	400.	399.
7304	341.	320.	341.	342.	343.	374.
7305	NOT PREGNANT					
7306	300.	331.	346.	370.	355.	373.
7307	NOT PREGNANT					
7308	338.	337.	360.	360.	374.	364.
7309	335.	317.	326.	353.	325.	357.
7310	384.	369.	393.	409.	373.	364.
7311	326.	326.	358.	376.	335.	386.
7312	352.	347.	368.	371.	364.	310.
7313	339.	326.	319.	326.	342.	352.
7314	353.	338.	342.	342.	359.	342.
7315	321.	327.	347.	350.	327.	366.
7316	386.	387.	393.	426.	412.	394.
7317	329.	304.	338.	337.	384.	368.
7318	307.	308.	334.	345.	329.	371.
7319	NOT PREGNANT					
7320	347.	354.	364.	372.	374.	389.

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 1): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY						
7201	31.	33.	64.	40.	48.	89.	47.	59.	78.	63.	50.	110.	52.
7202	40.	49.	93.	57.	68.	103.	69.	67.	108.	65.	71.	99.	66.
7203	29.	37.	70.	39.	47.	75.	60.	59.	86.	60.	52.	104.	58.
7204	30.	41.	82.	54.	57.	105.	91.	83.	173.	a	b	120.	a
7205	35.	49.	107.	56.	61.	90.	79.	69.	71.	77.	72.	117.	70.
7206	27.	34.	63.	41.	41.	69.	60.	50.	78.	58.	54.	82.	55.
7207	29.	36.	65.	47.	47.	75.	62.	62.	87.	62.	58.	93.	50.
7208	24.	30.	55.	46.	46.	68.	59.	67.	96.	77.	83.	110.	73.
7209	27.	35.	67.	49.	47.	77.	60.	61.	93.	80.	70.	81.	64.
7210	26.	36.	62.	47.	47.	80.	56.	63.	75.	57.	49.	85.	51.
7211	32.	38.	72.	51.	46.	86.	55.	66.	88.	60.	28.	115.	60.
7212	33.	40.	66.	48.	48.	88.	53.	62.	86.	62.	62.	94.	77.
7213	31.	40.	71.	29.	58.	97.	49.	81.	107.	64.	72.	99.	104.
7214	27.	32.	57.	40.	44.	90.	57.	62.	90.	70.	63.	94.	66.
7215	23.	29.	51.	37.	42.	73.	67.	49.	90.	66.	61.	97.	55.
7216	34.	36.	71.	43.	47.	95.	61.	76.	104.	71.	80.	130.	95.
7217	28.	33.	59.	36.	41.	79.	59.	90.	152.	a	125.	a	123.
7218	20.	32.	54.	34.	41.	76.	50.	57.	92.	64.	66.	96.	52.
7219	30.	39.	61.	41.	48.	82.	63.	65.	95.	57.	76.	90.	65.
7220	26.	32.	71.	45.	58.	90.	63.	68.	100.	124.	a	119.	113.
7221	35.	42.	74.	52.	60.	103.	71.	64.	96.	76.	65.	91.	68.
7222	29.	38.	70.	40.	51.	77.	57.	58.	80.	64.	66.	86.	59.
7223	36.	44.	96.	65.	a	125.	a	97.	138.	112.	115.	a	a
7224	35.	39.	96.	63.	81.	91.	80.	79.	119.	102.	92.	162.	10.
7225	33.	51.	81.	57.	85.	121.	86.	81.	106.	81.	71.	117.	79.
7226	37.	46.	80.	54.	60.	118.	80.	75.	122.	76.	77.	124.	92.
7227	39.	52.	85.	55.	66.	92.	71.	55.	105.	59.	57.	90.	63.
7228	39.	a	74.	55.	69.	101.	75.	63.	107.	62.	73.	95.	60.
7229	36.	42.	78.	53.	62.	115.	69.	75.	112.	77.	77.	122.	56.
7230	36.	30.	43.	23.	38.	75.	51.	60.	4.	71.	62.	92.	35.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 2): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY					
7201	59.	108.	96.	96.	117.	59.	92.	96.	72.	84.	113.	79.	102.
7202	75.	109.	115.	121.	a	111.	116.	166.	106.	a	186.	140.	133.
7203	70.	97.	68.	62.	114.	62.	60.	92.	59.	72.	174.	125.	157.
7204	93.	165.	88.	95.	180.	a	a	a	95.	86.	162.	b	a
7205	71.	122.	77.	80.	138.	61.	69.	107.	96.	89.	133.	85.	62.
7206	56.	91.	79.	76.	114.	86.	100.	130.	111.	80.	165.	97.	94.
7207	66.	86.	53.	57.	84.	63.	41.	84.	49.	47.	81.	45.	56.
7208	79.	116.	77.	95.	110.	103.	71.	110.	113.	93.	158.	69.	95.
7209	87.	109.	70.	78.	114.	69.	67.	113.	78.	72.	100.	59.	70.
7210	66.	83.	68.	56.	90.	52.	63.	83.	66.	48.	110.	45.	68.
7211	62.	96.	62.	72.	94.	a	a	a	a	a	a	a	a
7212	59.	116.	82.	81.	116.	48.	76.	110.	95.	84.	109.	84.	97.
7213	71.	101.	87.	67.	113.	72.	77.	129.	93.	125.	132.	a	72.
7214	64.	101.	73.	68.	97.	72.	58.	110.	66.	76.	85.	67.	62.
7215	76.	95.	80.	64.	97.	59.	70.	116.	77.	75.	113.	64.	69.
7216	109.	145.	137.	b	184.	a	a	a	a	a	209.	a	a
7217	125.	108.	105.	78.	184.	b	105.	189.	117.	a	154.	a	a
7218	63.	87.	67.	59.	86.	62.	46.	97.	50.	56.	83.	50.	56.
7219	63.	105.	75.	63.	107.	60.	62.	90.	54.	54.	84.	54.	68.
7220	a	a	136.	a	188.	136.	a	162.	a	a	201.	121.	108.
7221	72.	113.	77.	79.	100.	82.	58.	100.	80.	78.	102.	99.	69.
7222	57.	80.	62.	83.	164.	72.	65.	119.	a	92.	119.	a	87.
7223	a	a	a	a	155.	93.	88.	147.	a	a	a	a	a
7224	111.	154.	108.	b	a	a	135.	135.	a	b	a	a	a
7225	85.	124.	86.	80.	143.	79.	83.	122.	80.	95.	112.	111.	92.
7226	78.	131.	86.	81.	131.	79.	94.	132.	90.	88.	128.	117.	72.
7227	52.	85.	73.	64.	108.	62.	56.	109.	74.	70.	94.	60.	69.
7228	73.	101.	70.	61.	108.	84.	101.	137.	83.	80.	136.	78.	95.
7229	79.	136.	85.	96.	145.	84.	85.	116.	85.	81.	96.	48.	131.
7230	40.	63.	54.	59.	75.	56.	36.	96.	52.	57.	64.	25.	38.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 3): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 61 - 64	64 - 66	66 - 68a
RAT #	DOSAGE GROUP 1		0 (CARRIER) MG/KG/DAY
7201	170.	71.	94.
7202	189.	b	121.
7203	191.	c	88.
7204	c	c	c
7205	151.	83.	81.
7206	177.	58.	47.
7207	82.	58.	48.
7208	132.	77.	112.
7209	113.	67.	66.
7210	101.	59.	65.
7211	194.	b	c
7212	144.	59.	63.
7213	185.	c	136.
7214	110.	57.	57.
7215	152.	136.	c
7216	196.	112.	77.
7217	c	c	c
7218	84.	59.	41.
7219	92.	49.	44.
7220	c	73.	73.
7221	121.	56.	c
7222	182.	c	73.
7223	c	c	c
7224	c	c	115.
7225	148.	89.	94.
7226	134.	99.	67.
7227	105.	63.	68.
7228	185.	93.	126.
7229	123.	78.	90.
7230	62.	59.	47.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Presumed water spill precluded the calculation of this value.
c. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 4): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY						
7231	36.	44.	81.	49.	57.	94.	73.	76.	111.	76.	69.	125.	82.
7232	35.	44.	76.	47.	54.	79.	65.	66.	111.	74.	67.	89.	60.
7233	35.	41.	80.	54.	60.	95.	76.	65.	111.	62.	72.	107.	80.
7234	29.	38.	73.	46.	51.	83.	57.	59.	86.	51.	54.	84.	55.
7235	17.	36.	74.	45.	52.	84.	62.	61.	100.	69.	68.	108.	44.
7236	32.	40.	66.	43.	46.	74.	52.	53.	81.	52.	45.	92.	45.
7237	28.	27.	77.	51.	64.	97.	71.	72.	109.	79.	80.	139.	77.
7238	27.	33.	64.	46.	52.	83.	62.	60.	83.	53.	57.	84.	54.
7239	33.	39.	61.	45.	51.	76.	58.	66.	95.	62.	72.	93.	64.
7240	41.	46.	91.	60.	64.	103.	83.	99.	145.	a	95.	126.	144.
7241	32.	35.	74.	50.	48.	77.	53.	52.	90.	55.	66.	84.	60.
7242	27.	39.	71.	44.	52.	85.	44.	60.	87.	63.	62.	85.	66.
7243	30.	35.	59.	44.	51.	83.	58.	66.	96.	62.	63.	105.	56.
7244	28.	42.	77.	51.	53.	91.	60.	70.	103.	63.	67.	94.	70.
7245	22.	38.	77.	57.	67.	112.	87.	97.	153.	117.	112.	83.	66.
7246	28.	34.	61.	38.	52.	97.	66.	59.	99.	90.	a	a	a
7247	35.	45.	76.	51.	57.	84.	70.	70.	99.	79.	78.	129.	88.
7248	31.	48.	85.	60.	68.	119.	100.	103.	147.	118.	100.	172.	106.
7249	30.	37.	62.	41.	52.	87.	64.	65.	114.	66.	82.	106.	71.
7250	31.	40.	78.	50.	60.	102.	74.	79.	121.	90.	99.	120.	104.
7251	29.	35.	62.	43.	56.	94.	62.	69.	98.	61.	63.	89.	51.
7252	23.	32.	53.	36.	42.	69.	57.	59.	85.	54.	62.	93.	77.
7253	34.	41.	72.	46.	51.	87.	54.	72.	98.	72.	65.	101.	74.
7254	33.	41.	71.	48.	53.	82.	40.	68.	91.	61.	55.	95.	71.
7255	10.	25.	49.	38.	43.	48.	35.	48.	70.	52.	59.	51.	53.
7256	31.	37.	66.	43.	48.	a	67.	71.	89.	59.	53.	103.	74.
7257	31.	43.	74.	59.	66.	113.	a	71.	113.	132.	109.	148.	118.
7258	35.	36.	63.	43.	49.	78.	45.	59.	79.	55.	57.	85.	57.
7259	31.	39.	62.	43.	54.	82.	62.	70.	107.	67.	100.	a	112.
7260	34.	31.	58.	45.	53.	82.	58.	65.	101.	94.	87.	a	75.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 5): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY						
7231	84.	121.	72.	90.	137.	76.	77.	157.	125.	a	a	122.	116.
7232	56.	98.	50.	60.	101.	51.	62.	87.	62.	55.	96.	59.	57.
7233	71.	124.	82.	76.	147.	73.	85.	133.	94.	97.	183.	109.	101.
7234	51.	98.	63.	102.	169.	113.	b	152.	95.	139.	b	b	47.
7235	47.	b	101.	125.	165.	31.	63.	122.	97.	71.	154.	85.	54.
7236	61.	80.	58.	56.	102.	35.	62.	82.	69.	52.	106.	55.	47.
7237	97.	118.	84.	87.	131.	71.	54.	113.	86.	79.	116.	83.	70.
7238	61.	83.	62.	52.	96.	53.	61.	75.	59.	56.	86.	58.	55.
7239	72.	85.	71.	66.	96.	66.	72.	97.	73.	68.	90.	67.	61.
7240	131.	191.	118.	128.	b	a	b	b	b	b	b	b	b
7241	52.	86.	72.	52.	90.	47.	55.	92.	73.	a	182.	102.	95.
7242	59.	93.	59.	68.	88.	60.	65.	91.	66.	64.	93.	64.	58.
7243	65.	90.	57.	68.	89.	74.	54.	93.	77.	58.	99.	57.	60.
7244	87.	112.	114.	61.	a	124.	90.	155.	107.	b	b	b	b
7245	75.	140.	128.	58.	123.	124.	56.	209.	b	b	b	b	b
7246	b	b	b	b	b	129.	b	200.	b	b	b	b	b
7247	90.	119.	94.	106.	131.	95.	68.	111.	85.	70.	106.	89.	86.
7248	109.	157.	103.	112.	141.	109.	97.	144.	116.	97.	160.	109.	121.
7249	72.	132.	84.	103.	186.	b	132.	b	b	b	b	103.	127.
7250	101.	141.	125.	b	176.	82.	106.	186.	92.	b	146.	b	a
7251	73.	96.	76.	66.	90.	65.	62.	95.	62.	69.	82.	67.	69.
7252	68.	116.	111.	b	b	b	b	133.	b	121.	b	b	121.
7253	94.	154.	80.	54.	92.	28.	80.	107.	71.	65.	106.	64.	75.
7254	80.	b	103.	60.	106.	61.	78.	116.	85.	75.	103.	89.	66.
7255	51.	87.	63.	55.	79.	47.	58.	85.	52.	55.	77.	56.	50.
7256	77.	117.	84.	75.	93.	99.	82.	132.	114.	104.	116.	124.	101.
7257	84.	120.	68.	111.	117.	83.	64.	103.	b	73.	116.	73.	103.
7258	67.	87.	50.	66.	82.	57.	49.	97.	61.	53.	95.	60.	73.
7259	103.	121.	119.	84.	181.	111.	106.	152.	a	129.	144.	122.	124.
7260	103.	82.	116.	82.	186.	59.	62.	170.	47.	71.	97.	100.	123.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Presumed water spill precluded the calculation of this value.
b. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 6): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 61 - 64	64 - 66	66 - 68a
RAT #	DOSAGE GROUP 2		0.3 MG/KG/DAY
7231	b	111.	b
7232	102.	48.	66.
7233	b	b	b
7234	72.	55.	45.
7235	169.	79.	103.
7236	89.	52.	61.
7237	138.	70.	88.
7238	89.	61.	53.
7239	93.	85.	90.
7240	c	106.	104.
7241	b	69.	63.
7242	100.	62.	56.
7243	100.	53.	54.
7244	b	b	109.
7245	b	b	362.d
7246	b	b	b
7247	119.	95.	80.
7248	154.	89.	b
7249	174.	c	b
7250	b	116.	b
7251	85.	61.	67.
7252	b	93.	62.
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING		
7254	111.	58.	79.
7255	87.	41.	54.
7256	157.	93.	b
7257	92.	73.	b
7258	105.	46.	67.
7259	161.	88.	111.
7260	140.	109.	67.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.
d. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 7): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY					
7261	37.	49.	88.	66.	68.	119.	97.	89.	149.	98.	111.	186.	105.
7262	37.	48.	86.	56.	69.	98.	86.	76.	131.	78.	93.	133.	60.
7263	33.	50.	80.	50.	76.	122.	88.	96.	123.	98.	96.	166.	78.
7264	30.	39.	81.	45.	54.	81.	63.	62.	100.	58.	54.	97.	52.
7265	24.	37.	78.	49.	55.	88.	63.	70.	92.	80.	73.	113.	75.
7266	30.	41.	78.	58.	56.	89.	68.	68.	97.	60.	71.	97.	93.
7267	27.	36.	62.	42.	48.	75.	54.	56.	83.	52.	58.	87.	62.
7268	28.	38.	72.	48.	55.	82.	70.	93.	138.	a	97.	137.	81.
7269	22.	24.	46.	39.	44.	71.	60.	59.	99.	58.	71.	90.	72.
7270	33.	35.	62.	39.	47.	80.	57.	60.	92.	59.	66.	93.	53.
7271	3.	37.	52.	38.	38.	65.	47.	50.	83.	54.	56.	86.	64.
7272	39.	44.	79.	60.	65.	99.	76.	66.	109.	75.	74.	118.	90.
7273	29.	31.	57.	39.	39.	73.	50.	57.	89.	65.	67.	93.	74.
7274	33.	33.	77.	47.	52.	90.	74.	59.	106.	77.	87.	106.	85.
7275	25.	34.	63.	46.	47.	94.	59.	74.	104.	80.	80.	a	118.
7276	a	38.	59.	39.	45.	81.	61.	69.	94.	74.	65.	113.	96.
7277	27.	33.	60.	41.	44.	76.	54.	57.	81.	56.	58.	92.	59.
7278	27.	33.	157.	42.	47.	85.	53.	61.	79.	72.	59.	104.	67.
7279	30.	34.	56.	38.	44.	60.	55.	60.	83.	62.	60.	87.	57.
7280	32.	40.	70.	52.	52.	80.	72.	24.	89.	97.	132.	62.	24.
7281	28.	34.	62.	45.	44.	95.	59.	60.	95.	59.	71.	86.	67.
7282	30.	43.	84.	51.	52.	106.	66.	64.	95.	66.	76.	94.	71.
7283	27.	37.	63.	54.	54.	96.	85.	96.	154.	106.	106.	138.	98.
7284	34.	42.	70.	49.	52.	83.	63.	66.	100.	68.	68.	103.	65.
7285	30.	38.	70.	47.	54.	91.	63.	49.	69.	59.	53.	88.	62.
7286	21.	38.	65.	45.	55.	75.	54.	62.	99.	70.	64.	106.	77.
7287	34.	52.	82.	59.	66.	116.	64.	74.	102.	68.	63.	106.	91.
7288	35.	53.	81.	52.	67.	104.	75.	67.	100.	69.	34.	123.	74.
7289	30.	41.	68.	54.	62.	97.	66.	61.	97.	63.	58.	108.	54.
7290	29.	42.	65.	48.	55.	76.	60.	49.	74.	53.	34.	76.	48.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 8): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 3							3.0 MG/KG/DAY					
7261	126.	195.	120.	137.	203.	89.	130.	178.	87.	123.	178.	a	100.
7262	97.	115.	137.	b	159.	204.	102.	191.	b	b	b	b	b
7263	106.	132.	90.	77.	141.	76.	100.	186.	111.	89.	b	92.	103.
7264	61.	88.	59.	59.	123.	47.	96.	106.	92.	72.	126.	106.	84.
7265	71.	123.	61.	78.	125.	66.	81.	96.	88.	74.	115.	79.	59.
7266	71.	123.	70.	92.	110.	78.	72.	103.	71.	67.	106.	69.	82.
7267	62.	94.	60.	62.	99.	55.	63.	95.	55.	61.	98.	58.	51.
7268	73.	129.	122.	74.	202.	72.	78.	104.	89.	95.	144.	84.	93.
7269	68.	113.	72.	61.	143.	70.	97.	146.	114.	83.	133.	79.	65.
7270	71.	96.	66.	62.	129.	72.	86.	197.	102.	102.	b	83.	60.
7271	65.	96.	62.	67.	87.	60.	55.	97.	70.	77.	91.	43.	61.
7272	85.	122.	91.	99.	126.	88.	87.	136.	95.	99.	132.	83.	94.
7273	68.	101.	88.	69.	95.	80.	77.	117.	79.	72.	102.	75.	77.
7274	88.	140.	107.	100.	117.	110.	99.	159.	b	116.	b	b	b
7275	114.	178.	105.	98.	124.	99.	119.	b	130.	b	b	132.	127.
7276	119.	b	b	b	b	b	b	b	b	b	b	b	b
7277	64.	148.	85.	92.	153.	37.	52.	68.	75.	131.	129.	b	65.
7278	77.	107.	66.	67.	95.	77.	61.	106.	81.	62.	106.	65.	72.
7279	57.	101.	61.	42.	104.	53.	62.	90.	67.	60.	94.	62.	53.
7280	72.	104.	55.	83.	123.	90.	50.	134.	76.	50.	106.	b	b
7281	65.	114.	75.	75.	109.	72.	80.	105.	51.	79.	114.	91.	85.
7282	71.	124.	64.	74.	105.	80.	88.	142.	85.	118.	131.	115.	123.
7283	103.	172.	114.	105.	142.	104.	95.	159.	127.	105.	148.	115.	116.
7284	68.	104.	66.	63.	93.	73.	66.	106.	75.	73.	111.	74.	83.
7285	75.	140.	78.	85.	64.	82.	57.	125.	105.	85.	b	84.	82.
7286	69.	121.	85.	78.	128.	65.	94.	124.	127.	79.	148.	112.	b
7287	69.	139.	139.	138.	b	b	b	b	b	b	191.	b	b
7288	72.	112.	76.	58.	119.	85.	61.	114.	31.	60.	123.	75.	71.
7289	73.	94.	75.	65.	92.	64.	61.	109.	65.	77.	94.	75.	58.
7290	52.	77.	44.	38.	74.	52.	46.	80.	61.	43.	75.	59.	60.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Presumed water spill precluded the calculation of this value.
b. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 9): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 61 - 64	64 - 66	66 - 68a
RAT #	DOSAGE GROUP 3		3.0 MG/KG/DAY
7261	209.	139.	b
7262	c	b	b
7263	149.	81.	94.
7264	167.	84.	79.
7265	109.	65.	64.
7266	110.	82.	63.
7267	98.	67.	58.
7268	166.	105.	124.
7269	97.	9.	111.
7270	b	97.	b
7271	84.	72.	53.
7272	120.	97.	77.
7273	104.	82.	69.
7274	b	b	b
7275	177.	89.	c
7276	b	b	b
7277	b	111.	b
7278	99.	50.	90.
7279	97.	55.	51.
7280	b	b	106.
7281	145.	102.	69.
7282	124.	b	81.
7283	163.	93.	110.
7284	114.	58.	95.
7285	106.	66.	43.
7286	b	c	83.
7287	b	b	b
7288	108.	70.	b
7289	109.	55.	65.
7290	69.	44.	70.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 10): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAYS	1 - 3	3 - 5	5 - 8	8 - 10	10 - 12	12 - 15	15 - 17	17 - 19	19 - 22	22 - 24	24 - 26	26 - 29	29 - 31
RAT #	DOSAGE GROUP 4						30.0 MG/KG/DAY						
7291	30.	38.	80.	58.	60.	92.	85.	78.	136.	124.	112.	a	85.
7292	24.	34.	67.	45.	53.	67.	68.	51.	96.	58.	64.	91.	58.
7293	31.	38.	71.	52.	52.	66.	62.	50.	76.	44.	46.	69.	50.
7294	33.	46.	78.	51.	61.	97.	83.	83.	111.	103.	114.	141.	98.
7295	33.	43.	83.	50.	58.	84.	77.	59.	99.	59.	64.	99.	63.
7296	29.	35.	73.	44.	40.	72.	67.	73.	84.	53.	59.	84.	69.
7297	32.	39.	76.	50.	64.	82.	66.	59.	106.	65.	72.	101.	62.
7298	23.	41.	81.	55.	55.	86.	68.	70.	119.	80.	93.	141.	82.
7299	28.	37.	67.	44.	43.	79.	54.	56.	90.	78.	94.	142.	75.
7300	29.	37.	67.	51.	57.	87.	62.	64.	99.	71.	62.	104.	71.
7301	43.	55.	101.	68.	71.	126.	79.	84.	124.	73.	98.	121.	119.
7302	25.	32.	61.	52.	56.	115.	71.	81.	113.	89.	84.	122.	92.
7303	31.	33.	64.	53.	61.	106.	74.	81.	146.	b	125.	180.	143.
7304	37.	38.	69.	36.	52.	94.	89.	69.	141.	67.	79.	80.	88.
7305	25.	35.	63.	45.	48.	81.	23.	76.	112.	78.	71.	87.	47.
7306	37.	42.	85.	52.	64.	95.	75.	65.	115.	75.	79.	b	84.
7307	40.	37.	66.	48.	54.	100.	b	77.	102.	70.	64.	109.	73.
7308	43.	41.	88.	59.	80.	105.	84.	92.	124.	99.	107.	b	96.
7309	34.	42.	76.	44.	61.	70.	76.	77.	123.	83.	82.	b	90.
7310	28.	30.	59.	45.	47.	77.	64.	61.	88.	57.	62.	99.	61.
7311	19.	32.	60.	45.	44.	103.	72.	78.	118.	86.	93.	130.	98.
7312	41.	55.	93.	60.	55.	137.	135.	130.	b	135.	b	173.	76.
7313	27.	35.	58.	49.	44.	113.	60.	66.	96.	72.	67.	102.	72.
7314	31.	36.	62.	47.	41.	80.	55.	62.	83.	61.	59.	87.	61.
7315	9.	45.	81.	49.	47.	116.	69.	71.	98.	65.	56.	106.	61.
7316	39.	52.	87.	53.	54.	106.	62.	68.	99.	58.	70.	100.	59.
7317	31.	42.	62.	46.	49.	81.	59.	59.	89.	59.	35.	83.	108.
7318	32.	44.	c	52.	56.	87.	58.	56.	82.	61.	59.	88.	66.
7319	36.	53.	77.	59.	66.	101.	69.	63.	90.	68.	62.	99.	67.
7320	32.	31.	51.	45.	46.	84.	32.	64.	98.	64.	60.	102.	44.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Presumed water spill precluded the calculation of this value.
b. Spilled water precluded the calculation of this value.
c. Value could not be calculated.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 11): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 31 - 33	33 - 36	36 - 38	38 - 40	40 - 43	43 - 45	45 - 47	47 - 50	50 - 52	52 - 54	54 - 57	57 - 59	59 - 61
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY					
7291	76.	143.	a	123.	a	208.	b	a	a	a	a	a	a
7292	53.	109.	72.	87.	130.	69.	66.	97.	57.	68.	99.	48.	59.
7293	49.	80.	47.	133.	a	91.	a	a	b	a	109.	a	a
7294	99.	175.	100.	114.	150.	99.	101.	143.	113.	107.	147.	87.	67.
7295	69.	109.	72.	74.	145.	48.	67.	186.	72.	68.	128.	69.	83.
7296	73.	151.	88.	90.	a	144.	98.	136.	74.	79.	183.	b	68.
7297	75.	100.	69.	70.	107.	63.	62.	103.	57.	66.	142.	66.	67.
7298	87.	151.	126.	118.	210.	89.	107.	150.	118.	103.	169.	a	a
7299	85.	160.	115.	a	a	130.	118.	129.	107.	a	a	128.	72.
7300	75.	129.	112.	118.	84.	70.	87.	192.	a	138.	163.	81.	82.
7301	123.	a	a	a	200.	b	93.	a	114.	a	a	a	a
7302	96.	155.	99.	101.	150.	90.	106.	179.	118.	a	185.	110.	139.
7303	110.	175.	105.	139.	136.	115.	119.	193.	141.	a	a	a	100.
7304	83.	161.	77.	99.	132.	114.	85.	126.	116.	96.	155.	75.	131.
7305	63.	87.	76.	65.	72.	48.	52.	85.	56.	55.	85.	33.	51.
7306	75.	141.	93.	84.	121.	112.	96.	130.	104.	106.	160.	128.	89.
7307	65.	113.	88.	82.	118.	74.	88.	125.	96.	85.	128.	99.	78.
7308	119.	131.	a	a	229.	83.	a	a	a	a	a	a	a
7309	75.	129.	75.	100.	128.	85.	99.	125.	94.	80.	131.	80.	71.
7310	69.	94.	73.	76.	105.	79.	72.	100.	65.	76.	97.	51.	69.
7311	123.	198.	102.	118.	168.	120.	117.	188.	a	109.	a	129.	a
7312	a	a	120.	a	a	109.	117.	88.	93.	a	a	a	a
7313	67.	109.	66.	91.	133.	a	96.	a	a	76.	135.	a	a
7314	59.	94.	55.	75.	81.	54.	65.	91.	57.	59.	82.	67.	65.
7315	81.	104.	76.	90.	191.	a	b	134.	a	a	a	a	a
7316	73.	97.	65.	57.	100.	67.	48.	99.	65.	63.	80.	67.	80.
7317	129.	a	a	a	b	110.	139.	185.	a	81.	187.	a	94.
7318	59.	116.	91.	116.	145.	64.	88.	108.	74.	93.	176.	89.	65.
7319	59.	92.	71.	64.	96.	79.	86.	169.	89.	118.	112.	70.	74.
7320	56.	97.	63.	67.	102.	70.	63.	72.	82.	64.	72.	48.	63.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E37 (PAGE 12): WATER CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAYS 61 - 64	64 - 66	66 - 68a
RAT #	DOSAGE GROUP 4		30.0 MG/KG/DAY
7291	b	b	b
7292	88.	64.	b
7293	b	b	b
7294	129.	91.	82.
7295	124.	80.	99.
7296	182.	89.	110.
7297	116.	75.	68.
7298	193.	b	b
7299	101.	90.	65.
7300	156.	128.	118.
7301	150.	b	b
7302	179.	109.	137.
7303	163.	c	b
7304	202.	b	b
7305	88.	55.	52.
7306	b	117.	104.
7307	144.	96.	90.
7308	b	b	b
7309	136.	53.	69.
7310	90.	70.	56.
7311	120.	b	b
7312	b	b	b
7313	199.	b	123.
7314	95.	61.	29.
7315	123.	b	b
7316	104.	66.	67.
7317	b	118.	b
7318	152.	103.	120.
7319	114.	92.	107.
7320	87.	69.	63.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because water consumption was recorded at 2 or 3 day intervals, based on each rat's day postweaning, days 66-68 postweaning was the last interval in which a water consumption value was recorded in the youngest rats in this group.
b. Spilled water precluded the calculation of this value.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E38 (PAGE 1): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS	0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #	DOSAGE GROUP 1							0 (CARRIER) MG/KG/DAY					
7201	NP	182.	133.	a	113.	167.	111.	130.	164.	57.	59.	71.	58.
7202	P	180.	a	114.	131.	a	a	a	199.	177.	51.		
7203	NP	170.	131.	a	76.	145.	a	65.	59.	91.	80.	198.	194.
7204	P	a	a	a	a	215.	a	151.	185.	a	78.		
7205	P	136.	105.	101.	87.	175.	130.	128.	144.	92.	59.		
7206	NP	167.	111.	77.	57.	113.	95.	72.	56.	50.	25.	56.	62.
7207	NP	109.	74.	55.	77.	98.	51.	52.	32.	54.	26.	49.	48.
7208	P	111.	103.	111.	83.	134.	57.	81.	88.	86.	a		
7209	NP	130.	98.	92.	58.	74.	82.	71.	66.	52.	27.	52.	113.
7210	P	114.	127.	131.	116.	a	160.	125.	149.	112.	39.		
7211	P	115.	82.	92.	85.	187.	112.	103.	161.	118.	16.		
7212	P b	142.	91.	104.	133.	149.	111.	135.	109.	a	24.	47.	84.
7213	P	a	187.	a	a	a	a	169.	131.	96.	43.		
7214	P	125.	90.	106.	102.	144.	113.	119.	108.	120.	41.		
7215	P	127.	92.	85.	114.	226.	158.	a	103.	87.	43.		
7216	P	c	a	139.	124.	a	a	175.	145.	134.	47.		
7217	P	a	a	a	a	208.	a	a	105.	76.	28.		
7218	P	108.	93.	85.	84.	147.	102.	113.	132.	103.	54.		
7219	P	121.	98.	105.	90.	158.	115.	100.	102.	88.	44.		
7220	NP	134.	112.	136.	181.	a	109.	114.	56.	78.	27.	49.	103.
7221	NP	189.	107.	115.	107.	189.	106.	95.	99.	107.	27.	a	93.
7222	NP	106.	101.	100.	110.	166.	114.	142.	63.	71.	32.	61.	93.
7223	P	c	a	a	a	a	a	187.	a	195.	48.		
7224	P	a	a	a	a	a	a	120.	163.	110.	59.		
7225	P	156.	104.	110.	92.	131.	117.	101.	104.	111.	39.		
7226	P	137.	106.	113.	107.	184.	125.	136.	138.	117.	36.		
7227	P	a	122.	107.	141.	204.	142.	a	129.	114.	50.		
7228	P	a	a	a	a	a	a	126.	118.	126.	62.		
7229	P	147.	126.	120.	117.	200.	121.	123.	169.	125.	61.		
7230	NP	MATING NOT CONFIRMED											

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
c. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E38 (PAGE 2): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS	0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #		DOSAGE GROUP 2						0.3 MG/KG/DAY					
7231	P	a	192.	176.	a	a	116.	92.	90.	91.	41.		
7232	P	107.	76.	78.	a	128.	105.	82.	102.	95.	40.		
7233	P	a	a	a	a	a	a	a	129.	105.	57.		
7234	P	133.	a	a	a	a	112.	197.	a	98.	42.		
7235	P	161.	165.	131.	113.	187.	122.	134.	117.	114.	42.		
7236	P	119.	93.	98.	73.	141.	102.	107.	51.	101.	48.		
7237	P	129.	76.	91.	93.	163.	126.	159.	168.	139.	33.		
7238	P	107.	73.	71.	73.	122.	85.	103.	108.	88.	37.		
7239	P	120.	93.	85.	77.	120.	84.	a	107.	81.	30.		
7240	P	a	a	a	a	a	a	a	a	185.	49.		
7241	P	a	175.	134.	114.	a	151.	139.	67.	97.	31.		
7242	P	123.	85.	98.	94.	165.	129.	135.	112.	111.	47.		
7243	NP	MATING NOT CONFIRMED											
7244	P	123.	113.	102.	109.	179.	94.	87.	117.	111.	50.		
7245	P	a	a	130.	a	209.	a	a	a	100.	64.		
7246	P	a	a	a	a	a	61.	100.	91.	88.	37.		
7247	P	115.	95.	95.	98.	171.	112.	109.	141.	103.	39.		
7248	P	a	119.	137.	124.	215.	152.	149.	141.	110.	49.		
7249	P	b	a	131.	170.	a	a	a	115.	107.	38.		
7250	P	193.	a	140.	138.	a	172.	159.	150.	104.	52.		
7251	P	121.	88.	80.	88.	137.	104.	105.	121.	89.	43.		
7252	P	171.	82.	136.	115.	165.	80.	76.	98.	92.	85.		
7253	-	MORIBUND SACRIFICED ON DAY 62 POSTWEANING											
7254	P	131.	93.	102.	108.	167.	128.	165.	119.	111.	38.		
7255	P	91.	72.	a	72.	116.	82.	72.	92.	89.	42.		
7256	P	92.	120.	108.	129.	194.	124.	119.	142.	105.	94.		
7257	P	a	198.	168.	a	221.	150.	147.	138.	124.	92.		
7258	P	139.	102.	108.	98.	159.	106.	115.	104.	92.	54.		
7259	P	176.	136.	146.	139.	213.	154.	141.	145.	110.	58.		
7260	NP	117.	172.	183.	168.	208.	127.	111.	40.	50.	25.	54.	92.

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.
b. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E38 (PAGE 3): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #	DOSAGE GROUP 3						3.0 MG/KG/DAY					
7261 NP	a	a	a	135.	a	131.	175.	104.	194.	36.	85.	161.
7262 P	a	a	a	a	a	a	a	115.	124.	77.		
7263 P	a	153.	151.	106.	215.	143.	105.	137.	147.	66.		
7264 P	a	a	a	a	a	a	a	135.	106.	95.		
7265 P	112.	95.	96.	112.	134.	105.	127.	78.	85.	49.		
7266 P	130.	a	98.	99.	144.	107.	120.	129.	119.	39.		
7267 P	120.	95.	86.	94.	144.	108.	112.	110.	83.	44.		
7268 P	147.	10.	18.	32.	85.	79.	83.	112.	83.	33.		
7269 P	a	145.	128.	120.	206.	204.	192.	193.	169.	43.		
7270 P	168.	a	170.	185.	a	144.	190.	a	92.	50.		
7271 P	141.	92.	102.	91.	149.	100.	102.	108.	86.	37.		
7272 P	131.	111.	110.	92.	150.	100.	130.	137.	119.	74.		
7273 P	132.	98.	94.	100.	171.	118.	114.	94.	105.	47.		
7274 P	a	a	a	a	a	a	188.	a	117.	66.		
7275 P	150.	a	a	126.	a	a	a	100.	130.	53.		
7276 P	a	a	a	101.	204.	122.	162.	136.	124.	40.		
7277 P	a	a	a	154.	203.	134.	130.	155.	102.	33.		
7278 P	118.	95.	88.	100.	160.	109.	115.	130.	104.	46.		
7279 P	129.	92.	94.	90.	132.	101.	104.	97.	96.	26.		
7280 P	a	164.	a	a	a	90.	103.	108.	114.	58.		
7281 P	133.	89.	86.	82.	143.	a	108.	92.	94.	50.		
7282 P	162.	120.	102.	110.	184.	146.	152.	145.	96.	43.		
7283 P	a	a	158.	154.	a	185.	172.	164.	128.	63.		
7284 P	a	123.	105.	147.	179.	122.	128.	162.	103.	49.		
7285 P	111.	90.	108.	99.	169.	120.	114.	66.	95.	45.		
7286 P	187.	110.	126.	87.	155.	104.	112.	111.	95.	47.		
7287 P	a	114.	131.	a	a	a	183.	148.	108.	44.		
7288 P	a	a	a	165.	a	a	a	136.	93.	51.		
7289 P	122.	93.	86.	100.	160.	103.	117.	123.	91.	44.		
7290 NP	100.	82.	73.	90.	103.	74.	44.	52.	42.	29.	54.	32.

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E38 (PAGE 4): MATERNAL WATER CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS	0 - 3	3 - 5	5 - 7	7 - 9	9 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 21	21 - 23	23 - 25
RAT #	DOSAGE GROUP 4							30.0 MG/KG/DAY					
7291	P	a	a	a	a	a	a	a	a	a	51.		
7292	P	123.	95.	94.	95.	157.	98.	108.	102.	90.	48.		
7293	P b	a	a	a	a	a	a	151.	118.	141.	12.	43.	103.
7294	P	164.	104.	89.	110.	171.	94.	102.	101.	101.	50.		
7295	P	104.	109.	84.	112.	162.	118.	135.	119.	129.	26.	c	
7296	P	a	a	127.	190.	a	112.	134.	133.	93.	50.		
7297	P	a	a	127.	a	a	167.	123.	164.	100.	49.		
7298	P	a	182.	a	146.	a	a	a	a	d	58.		
7299	P	133.	169.	177.	106.	208.	125.	119.	185.	112.	49.		
7300	P	121.	164.	136.	156.	a	163.	137.	172.	a	51.		
7301	P	a	a	a	a	a	159.	179.	124.	129.	54.		
7302	P	a	a	176.	139.	a	a	a	177.	108.	75.		
7303	P	202.	a	103.	117.	a	142.	72.	94.	92.	43.		
7304	P	a	a	a	103.	a	a	140.	119.	101.	39.		
7305	NP	a	83.	82.	81.	113.	75.	59.	49.	50.	30.	53.	108.
7306	P	a	162.	159.	160.	207.	167.	131.	131.	121.	57.		
7307	NP	154.	112.	97.	128.	177.	79.	79.	74.	90.	43.	85.	84.
7308	P	a	136.	a	108.	a	146.	154.	125.	121.	49.		
7309	P	164.	153.	158.	165.	a	147.	106.	121.	96.	48.		
7310	P	104.	77.	73.	84.	129.	95.	94.	98.	95.	44.		
7311	P	92.	a	a	173.	a	192.	a	130.	118.	65.		
7312	P	a	a	a	179.	a	a	a	154.	116.	70.		
7313	P	203.	a	127.	126.	196.	a	193.	172.	173.	44.		
7314	P	124.	123.	132.	137.	169.	117.	101.	124.	120.	37.		
7315	P	198.	a	129.	a	a	a	168.	147.	117.	42.		
7316	P	149.	101.	108.	127.	171.	117.	115.	128.	96.	33.		
7317	P	a	180.	a	159.	174.	117.	a	129.	132.	45.		
7318	P	135.	111.	a	82.	156.	103.	82.	113.	121.	50.		
7319	NP	a	a	a	a	a	a	196.	71.	62.	37.	a	94.
7320	P	117.	75.	82.	77.	138.	98.	109.	92.	90.	33.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Spilled water precluded the calculation of this value.
b. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
c. Dam 7295 was found dead on day 22 of gestation.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E39 (PAGE 1): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1 - 3	3 - 4	4 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
DAM #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY
7201	NOT PREGNANT						
7202	b	252.c	b	b	148.	b	248.
7203	NOT PREGNANT						
7204	119.	b	b	b	94.	171.	207.
7205d	94.	69.	260.	178.	103.	244.	253.
7206	NOT PREGNANT						
7207	NOT PREGNANT						
7208d	96.	60.	224.	b	105.	184.	192.
7209	NOT PREGNANT						
7210d	67.	64.	253.	223.	89.	217.	243.
7211	77.	79.	229.	231.	124.	222.	233.
7212e							
7213d	106.	71.	277.	154.	126.	210.	209.
7214	82.	69.	202.	178.	98.	155.	203.
7215d	132.	76.	242.	228.	181.	223.	b
7216	101.	49.	232.	194.	109.	163.	227.
7217	97.	65.	234.	213.	107.	189.	245.
7218d	106.	75.	236.	223.	88.	215.	218.
7219	106.	78.	238.	213.	125.	b	236.
7220	NOT PREGNANT						
7221	NOT PREGNANT						
7222	NOT PREGNANT						
7223d	98.	62.	211.	130.	94.	191.	226.
7224d	32.	49.	177.	131.	66.	223.	234.
7225d	19.	75.	243.	182.	89.	207.	218.
7226	113.	69.	240.	214.	114.	200.	239.
7227d	150.	103.	330.	236.	b	242.	235.
7228d	193.	99.	b	b	b	b	190.
7229d	106.	80.	302.	b	105.	b	259.
7230	MATING NOT CONFIRMED						

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Spilled water precluded the calculation of this value.
c. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.
d. Water consumption was also recorded on day 6, individual values included in the 4-7 interval calculation.
e. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E39 (PAGE 2): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1 - 3	3 - 4	4 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
DAM #	DOSAGE GROUP 2						0.3 MG/KG/DAY
7231b	69.	70.	262.	225.	119.	235.	237.
7232b	89.	41.	190.	182.	92.	212.	214.
7233b	87.	70.	372.	243.	c	233.	218.
7234b	188.	62.	261.	183.	90.	215.	213.
7235b	76.	68.	248.	176.	78.	214.	181.
7236b	115.	76.	283.	183.	132.	238.	188.
7237	106.	68.	243.	182.	120.	171.	252.
7238	108.	79.	237.	152.	91.	168.	212.
7239b	90.	58.	273.	180.	67.	224.	223.
7240	85.	54.	201.	169.	101.	198.	238.
7241b	105.	66.	226.	194.	69.	202.	230.
7242b	95.	70.	263.	163.	118.	216.	181.
7243	MATING NOT CONFIRMED						
7244b	89.	64.	226.	138.	112.	201.	209.
7245b	136.	76.	c	c	115.	243.	c
7246	83.	56.	194.	156.	105.	153.	204.
7247b	93.	72.	231.	173.	79.	229.	239.
7248b	77.	67.	265.	198.	95.	220.	235.
7249b	c	164.	c	231.	97.	232.	242.
7250b	138.	109.	288.	90.	137.	252.	220.
7251b	88.	61.	231.	178.	85.	244.	252.
7252b	83.	67.	251.	178.	146.	225.	188.
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING						
7254	46.	48.	193.	165.	106.	165.	236.
7255b	73.	59.	181.	184.	99.	218.	c
7256b	131.	78.	c	241.	c	252.	244.
7257b	128.	94.	303.	c	118.	245.	239.
7258b	100.	73.	292.	196.	120.	241.	238.
7259b	102.	68.	288.	217.	125.	246.	247.
7260	NOT PREGNANT						

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Water consumption was also recorded on day 6, individual values included in the 4-7 interval calculation.
c. Spilled water precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E39 (PAGE 3): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1 - 3	3 - 4	4 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
DAM #	DOSAGE GROUP 3						3.0 MG/KG/DAY
7261	NOT PREGNANT						
7262b	c	c	c	244.	171.	242.	143.
7263b	70.	74.	201.	175.	91.	181.	233.
7264b	108.	85.	c	242.	123.	240.	c
7265b	58.	45.	142.	143.	60.	178.	169.
7266	72.	48.	207.	191.	97.	169.	247.
7267b	73.	42.	167.	159.	69.	169.	198.
7268	51.	44.	181.	139.	79.	165.	185.
7269b	110.	73.	303.	d	100.	234.	245.
7270b	85.	59.	c	172.	80.	229.	250.
7271b	66.	53.	193.	147.	73.	202.	209.
7272b	c	229.	c	c	c	241.	c
7273b	94.	55.	236.	166.	88.	192.	213.
7274b	111.	77.	289.	191.	108.	d	253.
7275	108.	62.	241.	199.	108.	235.	242.
7276b	99.	67.	264.	c	85.	201.	221.
7277	67.	52.	190.	153.	91.	162.	195.
7278b	110.	71.	238.	c	d	227.	234.
7279	122.	74.	233.	239.	164.	209.	253.
7280b	c	150.	c	215.	96.	180.	213.
7281b	68.	71.	212.	204.	106.	200.	c
7282b	96.	70.	255.	176.	101.	226.	232.
7283b	107.	81.	279.	173.	140.	c	203.
7284b	65.	49.	176.	144.	69.	157.	208.
7285	68.	61.	215.	185.	116.	196.	242.
7286b	105.	96.	299.	175.	142.	c	210.
7287b	94.	69.	237.	214.	93.	239.	249.
7288b	125.	95.	300.	207.	155.	244.	c
7289b	87.	49.	200.	139.	82.	173.	179.
7290	NOT PREGNANT						

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Water consumption was also recorded on day 6, individual values included in the 4-7 interval calculation.
c. Spilled water precluded the calculation of this value.
d. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E39 (PAGE 4): MATERNAL WATER CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1 - 3	3 - 4	4 - 7	7 - 9	9 - 10	10 - 12	12 - 14a
DAM #	DOSAGE GROUP 4						30.0 MG/KG/DAY
7291	99.	78.	240.	236.	135.	b	b
7292c	58.	47.	174.	128.	93.	174.	167.
7293d							
7294c	82.	76.	324.	197.	145.	229.	192.
7295	FOUND DEAD ON DAY 22 OF GESTATION						
7296	81.	65.	222.	167.	102.	186.	243.
7297c	95.	61.	246.	172.	97.	205.	195.
7298c	69.	75.	239.	234.	95.	206.	242.
7299c	103.	60.	256.	b	84.	208.	b
7300	83.	79.	234.	235.	129.	b	245.
7301c	84.	113.	322.	252.	151.	230.	204.
7302c	113.	75.	6.e	b	137.	236.	252.
7303c	82.	49.	197.	180.	75.	216.	252.
7304c	78.	59.	214.	174.	83.	202.	234.
7305	NOT PREGNANT						
7306c	160.	113.	305.	231.	114.	220.	219.
7307	NOT PREGNANT						
7308c	74.	61.	229.	146.	97.	194.	196.
7309c	100.	48.	236.	207.	111.	249.	244.
7310c	68.	67.	230.	f	86.	249.	238.
7311c	110.	72.	260.	239.	f	238.	250.
7312c	124.	73.	335.	b	b	b	254.
7313	61.	59.	147.	116.	86.	164.	245.
7314c	112.	40.	123.	93.	41.	103.	107.
7315	157.	66.	244.	216.	123.	206.	b
7316c	102.	58.	216.	168.	72.	197.	194.
7317c	92.	55.	201.	196.	79.	191.	233.
7318c	107.	72.	252.	208.	94.	235.	b
7319	NOT PREGNANT						
7320	65.	72.	226.	181.	107.	154.	240.

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. It is presumed that the pups begin to consume the maternal water after day 14 of lactation.
b. Spilled water precluded the calculation of this value.
c. Water consumption was also recorded on day 6, individual values included in the 4-7 interval calculation.
d. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
e. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.
f. Presumed water spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E40 (PAGE 1): FEED CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a
RAT #	DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY		
7201	75.	120.	130.	b	134.	137.	129.	143.	129.
7202	84.	120.	134.	137.	139.	152.	143.	148.	141.
7203	91.	128.	149.	156.	163.	173.	171.	170.	152.
7204	90.	116.	129.	127.	126.	128.	128.	127.	123.
7205	83.	120.	129.	132.	150.	149.	137.	156.	139.
7206	86.	117.	124.	121.	133.	136.	138.	150.	148.
7207	87.	130.	152.	158.	158.	147.	156.	135.	141.
7208	79.	129.	148.	161.	163.	164.	172.	181.	165.
7209	75.	116.	136.	148.	155.	155.	163.	156.	162.
7210	86.	127.	136.	150.	145.	153.	150.	150.	159.
7211	82.	123.	143.	159.	146.	126.	142.	122.	151.
7212	80.	124.	133.	139.	144.	136.	138.	134.	141.
7213	85.	117.	140.	b	165.	161.	152.	152.	147.
7214	70.	151.	154.	160.	154.	b	168.	153.	163.
7215	72.	137.	130.	143.	147.	165.	149.	152.	163.
7216	85.	168.	151.	b	212.	208.	203.	b	179.
7217	80.	162.	162.	170.	170.	163.	171.	161.	143.
7218	58.	126.	139.	151.	146.	147.	150.	134.	134.
7219	93.	133.	161.	169.	b	178.	b	164.	171.
7220	101.	133.	161.	188.	178.	188.	183.	194.	136.
7221	99.	143.	158.	170.	159.	162.	163.	166.	161.
7222	89.	124.	149.	156.	146.	158.	157.	154.	159.
7223	103.	147.	161.	183.	198.	208.	185.	197.	185.
7224	118.	150.	165.	177.	150.	179.	150.	184.	171.
7225	102.	151.	172.	174.	169.	172.	163.	170.	156.
7226	94.	145.	167.	b	163.	181.	167.	172.	153.
7227	90.	137.	162.	161.	148.	165.	147.	166.	143.
7228	101.	144.	164.	156.	150.	155.	161.	151.	79.
7229	94.	130.	148.	156.	174.	166.	156.	153.	b
7230	96.	132.	127.	162.	165.	148.	147.	138.	128.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E40 (PAGE 2): FEED CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a
RAT #	DOSAGE GROUP 2						0.3 MG/KG/DAY		
7231	91.	129.	153.	153.	157.	162.	158.	167.	152.
7232	94.	189.	168.	185.	b	168.	193.	187.	247.
7233	106.	152.	168.	162.	166.	185.	178.	182.	178.
7234	81.	129.	146.	147.	157.	172.	156.	170.	153.
7235	92.	132.	145.	150.	151.	147.	136.	148.	143.
7236	c	132.	140.	144.	141.	160.	139.	159.	143.
7237	85.	135.	141.	141.	142.	143.	132.	140.	130.
7238	84.	133.	142.	138.	136.	142.	139.	136.	128.
7239	88.	128.	149.	148.	144.	152.	152.	152.	157.
7240	92.	126.	166.	179.	188.	178.	164.	189.	181.
7241	91.	125.	135.	141.	153.	b	b	b	b
7242	103.	168.	151.	b	153.	146.	150.	156.	160.
7243	87.	143.	153.	174.	173.	176.	174.	186.	178.
7244	88.	137.	160.	157.	152.	158.	158.	153.	165.
7245	85.	136.	184.	172.	168.	180.	180.	174.	162.
7246	80.	128.	b	167.	164.	b	170.	b	b
7247	93.	119.	145.	147.	142.	156.	154.	153.	148.
7248	94.	138.	166.	179.	171.	183.	190.	191.	175.
7249	73.	118.	b	162.	150.	170.	195.	173.	154.
7250	99.	133.	160.	164.	160.	181.	168.	168.	191.
7251	93.	129.	155.	158.	134.	146.	154.	148.	129.
7252	80.	109.	137.	143.	138.	b	168.	171.	159.
7253	105.	128.	152.	153.	144.	d	d	145.	e
7254	91.	133.	148.	158.	b	175.	159.	183.	161.
7255	f	101.	134.	143.	137.	150.	146.	148.	139.
7256	100.	129.	153.	162.	146.	169.	169.	165.	149.
7257	97.	132.	146.	151.	138.	156.	146.	153.	127.
7258	89.	124.	139.	152.	137.	147.	150.	144.	130.
7259	78.	120.	152.	161.	168.	183.	167.	165.	141.
7260	79.	123.	150.	156.	150.	166.	149.	152.	155.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.
c. Soiled feed precluded the calculation of this value.
d. Value could not be calculated.
e. Rat 7253 was moribund sacrificed on day 62 postweaning.
f. Wet feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E40 (PAGE 3): FEED CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT #	DAY 1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a	64a- 71	71 - 78
	DOSAGE GROUP 3						3.0 MG/KG/DAY				
7261	95.	130.	138.	141.	146.	161.	143.	153.	151.	149.	140.
7262	92.	135.	153.	144.	141.	157.	165.	150.	145.	143.	161.
7263	90.	136.	147.	144.	145.	138.	156.	150.	152.	139.	147.
7264	87.	129.	152.	152.	145.	172.	169.	190.	170.	144.	158.
7265	b	152.	180.	205.	227.	223.	c	251.	233.	224.	220.
7266	97.	149.	154.	148.	183.	c	153.	159.	174.	144.	160.
7267	87.	134.	144.	145.	162.	163.	160.	159.	157.	153.	135.
7268	82.	140.	145.	148.	151.	155.	142.	157.	138.	142.	139.
7269	b	123.	149.	145.	155.	159.	182.	170.	134.	118.	160.
7270	83.	142.	149.	c	161.	180.	174.	216.	175.	178.	182.
7271	77.	114.	135.	145.	146.	147.	143.	145.	133.	150.	142.
7272	109.	147.	144.	157.	163.	158.	171.	167.	161.	146.	145.
7273	78.	119.	131.	140.	150.	151.	157.	147.	134.	138.	138.
7274	92.	176.	162.	168.	173.	187.	184.	176.	170.	174.	180.
7275	86.	148.	141.	158.	176.	153.	166.	182.	c	149.	145.
7276	d	124.	148.	159.	149.	c	167.	166.	150.	148.	138.
7277	90.	119.	142.	157.	152.	160.	150.	156.	143.	135.	142.
7278	69.	113.	135.	154.	151.	156.	159.	161.	144.	133.	148.
7279	81.	121.	152.	174.	172.	179.	159.	168.	160.	140.	142.
7280	d	121.	150.	164.	166.	189.	177.	c	170.	c	c
7281	98.	137.	157.	164.	158.	154.	154.	145.	142.	158.	161.
7282	101.	149.	177.	196.	194.	136.	c	203.	196.	179.	177.
7283	69.	108.	156.	167.	154.	170.	168.	179.	163.	155.	163.
7284	92.	122.	154.	179.	156.	174.	168.	177.	164.	150.	143.
7285	79.	122.	151.	141.	142.	172.	150.	162.	144.	144.	145.
7286	89.	127.	152.	172.	176.	173.	179.	195.	166.	176.	174.
7287	119.	147.	151.	158.	174.	172.	172.	184.	155.	152.	158.
7288	101.	131.	157.	c	175.	181.	184.	165.	171.	170.	136.
7289	104.	141.	158.	168.	183.	192.	190.	203.	200.	178.	178.
7290	114.	147.	161.	175.	170.	c	169.	176.	151.	148.	155.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 71-78 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Soiled feed precluded the calculation of this value.
c. Spilled feed precluded the calculation of this value.
d. Wet feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E40 (PAGE 4): FEED CONSUMPTION VALUES - POSTWEANING - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1 - 8	8 - 15	15 - 22	22 - 29	29 - 36	36 - 43	43 - 50	50 - 57	57 - 64a
RAT #	DOSAGE GROUP 4					30.0 MG/KG/DAY			
7291	89.	135.	156.	161.	160.	167.	158.	171.	157.
7292	86.	136.	146.	140.	147.	169.	152.	152.	146.
7293	99.	140.	144.	136.	145.	158.	157.	162.	147.
7294	87.	139.	161.	150.	165.	168.	163.	164.	156.
7295	91.	131.	153.	152.	173.	178.	174.	173.	159.
7296	94.	129.	149.	141.	148.	145.	146.	143.	128.
7297	85.	137.	154.	155.	163.	162.	152.	152.	141.
7298	71.	135.	157.	153.	181.	181.	195.	170.	175.
7299	79.	117.	138.	148.	180.	152.	146.	b	b
7300	95.	137.	153.	157.	148.	183.	154.	156.	165.
7301	106.	139.	159.	158.	240.	159.	b	143.	153.
7302	80.	135.	169.	191.	189.	214.	b	b	206.
7303	90.	141.	172.	190.	136.	204.	b	167.	177.
7304	73.	134.	145.	163.	181.	b	b	173.	169.
7305	86.	135.	128.	169.	149.	149.	148.	149.	141.
7306	76.	136.	148.	145.	154.	153.	155.	152.	146.
7307	90.	171.	172.	169.	184.	b	b	b	197.
7308	83.	124.	145.	150.	156.	159.	159.	151.	151.
7309	86.	126.	148.	159.	155.	166.	173.	169.	168.
7310	91.	146.	162.	166.	182.	190.	189.	171.	163.
7311	c	126.	162.	167.	152.	b	168.	166.	152.
7312	b	132.	185.	163.	152.	b	146.	146.	138.
7313	b	124.	158.	163.	155.	171.	164.	153.	139.
7314	94.	130.	165.	167.	155.	171.	157.	156.	143.
7315	83.	153.	157.	152.	146.	176.	148.	147.	132.
7316	110.	151.	174.	181.	175.	178.	172.	157.	161.
7317	93.	144.	155.	164.	b	161.	154.	147.	139.
7318	101.	146.	140.	150.	144.	149.	144.	145.	143.
7319	98.	142.	174.	186.	198.	197.	223.	217.	196.
7320	96.	124.	151.	148.	155.	164.	168.	169.	153.

DAY = DAY POSTWEANING
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Because feed consumption was recorded at weekly intervals, based on each rat's day postweaning, days 57-64 postweaning was the last interval in which a feed consumption value was recorded in the youngest rats in this group.
b. Spilled feed precluded the calculation of this value.
c. Wet feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E41 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 7	7 - 14	14 - 21	21 - 25
RAT #	DOSAGE GROUP 1			0 (CARRIER) MG/KG/DAY
7201 NP	145.	132.	120.	65.
7202 P	118.	183.	193.	
7203 NP	181.	182.	130.	79.
7204 P	182.	139.	160.	
7205 P	141.	155.	179.	
7206 NP	155.	144.	128.	82.
7207 NP	182.	151.	119.	67.
7208 P	192.	185.	189.	
7209 NP	145.	102.	117.	66.
7210 P	184.	208.	220.	
7211 P	149.	143.	157.	
7212 P a	169.	177.	130.	45.
7213 P	187.	180.	196.	
7214 P	160.	168.	190.	
7215 P	180.	195.	207.	
7216 P	183.	192.	222.	
7217 P	152.	164.	176.	
7218 P	148.	158.	199.	
7219 P	236.	201.	218.	
7220 NP	236.	211.	154.	77.
7221 NP	193.	188.	184.	71.
7222 NP	175.	164.	138.	80.
7223 P	222.	227.	229.	
7224 P	167.	201.	199.	
7225 P	171.	168.	190.	
7226 P	173.	178.	187.	
7227 P	193.	201.	203.	
7228 P	196.	197.	212.	
7229 P	176.	197.	217.	
7230 NP	MATING NOT CONFIRMED			

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E41 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 7	7 - 14	14 - 21	21 - 25
RAT #	DOSAGE GROUP 2			0.3 MG/KG/DAY
7231 P	182.	198.	190.	
7232 P	184.	182.	196.	
7233 P	217.	244.	212.	
7234 P	172.	190.	204.	
7235 P	168.	181.	194.	
7236 P	170.	175.	200.	
7237 P	143.	161.	182.	
7238 P	163.	167.	171.	
7239 P	157.	164.	187.	
7240 P	a	185.	202.	
7241 P	179.	164.	180.	
7242 P	168.	172.	202.	
7243 NP	MATING NOT CONFIRMED			
7244 P	166.	185.	206.	
7245 P	224.	217.	216.	
7246 P	a	163.	171.	
7247 P	167.	180.	196.	
7248 P	184.	200.	210.	
7249 P	189.	200.	210.	
7250 P	200.	214.	209.	
7251 P	152.	155.	173.	
7252 P	171.	176.	182.	
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING			
7254 P	177.	183.	187.	
7255 P	175.	181.	188.	
7256 P	182.	186.	211.	
7257 P	171.	178.	193.	
7258 P	170.	174.	191.	
7259 P	167.	172.	195.	
7260 NP	190.	174.	125.	76.

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E41 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 7	7 - 14	14 - 21	21 - 25
RAT #	DOSAGE GROUP 3			3.0 MG/KG/DAY
7261 NP	156.	154.	142.	76.
7262 P	181.	596.a	187.	
7263 P	149.	158.	195.	
7264 P	220.	217.	192.	
7265 P	b	218.	224.	
7266 P	b	188.	192.	
7267 P	166.	184.	191.	
7268 P	56.	122.	178.	
7269 P	187.	201.	198.	
7270 P	186.	224.	218.	
7271 P	193.	186.	201.	
7272 P	163.	188.	199.	
7273 P	160.	183.	191.	
7274 P	159.	212.	224.	
7275 P	b	209.	205.	
7276 P	168.	167.	122.	
7277 P	164.	180.	185.	
7278 P	166.	178.	198.	
7279 P	242.	209.	213.	
7280 P	b	207.	b	
7281 P	176.	194.	b	
7282 P	189.	205.	202.	
7283 P	192.	193.	205.	
7284 P	194.	212.	227.	
7285 P	190.	192.	187.	
7286 P	217.	205.	202.	
7287 P	185.	222.	220.	
7288 P	146.	186.	212.	
7289 P	201.	207.	205.	
7290 NP	178.	156.	163.	83.

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. Value appeared incorrectly recorded and was excluded from group averages and statistical analyses.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E41 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - PRESUMED GESTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

PREGNANCY STATUS	DAYS 0 - 7	7 - 14	14 - 21	21 - 25	
RAT #	DOSAGE GROUP 4				30.0 MG/KG/DAY
7291 P	171.	166.	196.		
7292 P	183.	196.	197.		
7293 P a	163.	204.	174.	63.	
7294 P	160.	178.	187.		
7295 P	177.	180.	193.	FOUND DEAD ON DAY 22 OF GESTATION	
7296 P	170.	180.	209.		
7297 P	163.	190.	197.		
7298 P	162.	183.	203.		
7299 P	169.	171.	196.		
7300 P	196.	215.	221.		
7301 P	170.	179.	194.		
7302 P	b	232.	230.		
7303 P	197.	210.	149.		
7304 P	207.	202.	212.		
7305 NP	170.	166.	138.	86.	
7306 P	170.	189.	184.		
7307 NP	200.	b	216.c	70.	
7308 P	145.	174.	180.		
7309 P	166.	185.	182.		
7310 P	195.	216.	219.		
7311 P	174.	181.	187.		
7312 P	b	194.	197.		
7313 P	186.	185.	191.		
7314 P	163.	185.	209.		
7315 P	164.	186.	208.		
7316 P	212.	227.	226.		
7317 P	175.	192.	195.		
7318 P	157.	172.	178.		
7319 NP	180.	224.	176.	75.	
7320 P	180.	179.	182.		

P = PREGNANT NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
DAYS = DAYS OF PRESUMED GESTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
b. Spilled feed precluded the calculation of this value.
c. Value appeared associated with spillage and was excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E42 (PAGE 1): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1 - 4	4 - 7	7 - 10	10 - 14a
DAM #	DOSAGE GROUP 1			0 (CARRIER) MG/KG/DAY
7201	NOT PREGNANT			
7202	b	200.	225.	b
7203	NOT PREGNANT			
7204	87.	119.	149.	246.
7205	82.	139.	172.	b
7206	NOT PREGNANT			
7207	NOT PREGNANT			
7208	99.	149.	190.	c
7209	NOT PREGNANT			
7210	83.	174.	199.	b
7211	71.	188.	222.	b
7212d				
7213	117.	197.	191.	286.
7214	131.	161.	183.	269.
7215	119.	166.	205.	287.
7216	78.	155.	182.	252.
7217	82.	174.	197.	276.
7218	114.	185.	191.	b
7219	185.	b	225.	b
7220	NOT PREGNANT			
7221	NOT PREGNANT			
7222	NOT PREGNANT			
7223	77.	99.	94.	124.
7224	49.	101.	150.	263.
7225	122.	185.	207.	b
7226	102.	171.	201.	b
7227	144.	b	242.	b
7228	247.	b	211.	b
7229	115.	167.	191.	b
7230	MATING NOT CONFIRMED			

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Spilled feed precluded the calculation of this value.
c. Value was not recorded.
d. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E42 (PAGE 2): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1 - 4	4 - 7	7 - 10	10 - 14a
DAM #	DOSAGE GROUP 2			0.3 MG/KG/DAY
7231	96.	b	220.	277.
7232	76.	b	179.	283.
7233	112.	194.	190.	b
7234	95.	166.	180.	b
7235	89.	177.	181.	b
7236	146.	197.	198.	b
7237	108.	188.	187.	234.
7238	108.	204.	164.	267.
7239	89.	163.	199.	b
7240	76.	131.	165.	268.
7241	86.	167.	158.	239.
7242	104.	159.	185.	270.
7243	MATING NOT CONFIRMED			
7244	105.	154.	182.	259.
7245	103.	176.	206.	b
7246	b	b	b	b
7247	99.	171.	172.	b
7248	78.	151.	192.	b
7249	127.	b	224.	b
7250	109.	171.	211.	315.
7251	94.	149.	203.	253.
7252	95.	158.	194.	b
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING			
7254	44.	b	b	b
7255	77.	126.	174.	142.
7256	112.	181.	b	254.
7257	124.	183.	177.	b
7258	117.	182.	b	b
7259	103.	141.	170.	311.
7260	NOT PREGNANT			

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E42 (PAGE 3): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

	DAY 1 - 4	4 - 7	7 - 10	10 - 14a
DAM #	DOSAGE GROUP 3			3.0 MG/KG/DAY
7261	NOT PREGNANT			
7262	71.	132.	168.	273.
7263	77.	130.	174.	274.
7264	101.	151.	182.	276.
7265	79.	108.	141.	241.
7266	72.	146.	175.	229.
7267	67.	109.	141.	222.
7268	61.	146.	161.	237.
7269	117.	182.	215.	b
7270	90.	136.	188.	b
7271	88.	142.	162.	b
7272	96.	107.	172.	285.
7273	97.	145.	189.	288.
7274	110.	176.	248.	b
7275	89.	163.	177.	273.
7276	76.	139.	147.	255.
7277	80.	151.	177.	256.
7278	120.	203.	192.	b
7279	117.	b	b	b
7280	90.	121.	b	262.
7281	86.	137.	178.	275.
7282	96.	146.	174.	234.
7283	126.	b	b	262.
7284	69.	131.	131.	207.
7285	69.	154.	182.	b
7286	114.	b	192.	275.
7287	100.	202.	183.	b
7288	148.	b	b	280.
7289	79.	b	160.	270.
7290	NOT PREGNANT			

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Spilled feed precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E42 (PAGE 4): MATERNAL FEED CONSUMPTION VALUES - LACTATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DAY	1 - 4	4 - 7	7 - 10	10 - 14a
DAM #	DOSAGE GROUP 4			30.0 MG/KG/DAY
7291	108.	193.	181.	b
7292	74.	108.	146.	236.
7293c				
7294	83.	b	173.	259.
7295	FOUND DEAD ON DAY 22 OF GESTATION			
7296	68.	137.	166.	238.
7297	b	b	163.	271.
7298	83.	167.	206.	b
7299	91.	152.	182.	b
7300	86.	162.	b	b
7301	92.	128.	157.	d
7302	116.	d	201.	b
7303	81.	106.	173.	284.
7304	83.	154.	184.	b
7305	NOT PREGNANT			
7306	108.	167.	206.	312.
7307	NOT PREGNANT			
7308	78.	131.	162.	267.
7309	102.	125.	176.	b
7310	b	173.	194.	b
7311	97.	184.	211.	b
7312	111.	159.	197.	b
7313	61.	97.	119.	184.
7314	73.	99.	106.	173.
7315	94.	179.	b	278.
7316	90.	135.	184.	257.
7317	58.	128.	151.	246.
7318	b	161.	186.	b
7319	NOT PREGNANT			
7320	73.	191.	193.	b

DAY = DAY OF LACTATION
ALL WEIGHTS WERE RECORDED IN GRAMS (G).
a. It is presumed that the pups begin to consume the maternal feed after day 14 of lactation.
b. Spilled feed precluded the calculation of this value.
c. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.
d. Presumed feed spill precluded the calculation of this value.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E43 (PAGE 1): SEXUAL MATURATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP	1		2		3		4	
TARGET DOSAGE (MG/KG/DAY)	0 (CARRIER)		0.3		3.0		30.0	
	RAT #	VAGINAL PATENCY (DAY)	RAT #	VAGINAL PATENCY (DAY)	RAT #	VAGINAL PATENCY (DAY)	RAT #	VAGINAL PATENCY (DAY)
	7201	33	7231	33	7261	33	7291	32
	7202	39	7232	32	7262	32	7292	33
	7203	30	7233	30	7263	28	7293	29
	7204	33	7234	33	7264	33	7294	30
	7205	40	7235	30	7265	32	7295	34
	7206	35	7236	33	7266	29	7296	28
	7207	33	7237	32	7267	32	7297	30
	7208	33	7238	32	7268	31	7298	33
	7209	34	7239	33	7269	29	7299	33
	7210	32	7240	33	7270	30	7300	31
	7211	32	7241	31	7271	34	7301	32
	7212	33	7242	33	7272	30	7302	31
	7213	32	7243	32	7273	32	7303	32
	7214	32	7244	32	7274	30	7304	31
	7215	33	7245	31	7275	32	7305	33
	7216	32	7246	29	7276	32	7306	33
	7217	33	7247	37	7277	31	7307	32
	7218	35	7248	32	7278	32	7308	31
	7219	32	7249	31	7279	30	7309	31
	7220	34	7250	32	7280	30	7310	30
	7221	30	7251	32	7281	30	7311	33
	7222	31	7252	34	7282	31	7312	29
	7223	29	7253	33	7283	33	7313	32
	7224	32	7254	32	7284	33	7314	33
	7225	29	7255	33	7285	31	7315	31
	7226	31	7256	30	7286	30	7316	31
	7227	30	7257	29	7287	28	7317	29
	7228	28	7258	29	7288	30	7318	28
	7229	33	7259	34	7289	30	7319	31
	7230	32	7260	32	7290	30	7320	35

DAY = DAY POSTPARTUM

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E44 (PAGE 1): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 1			0 (CARRIER) MG/KG/DAY		
7201	5	3	7216	5	1
7202	4a	1	7217	5	1
7203	6	4	7218	5	2
7204	5	1	7219	5	1
7205	3a	3	7220	4	2
7206	6	4	7221	4	1
7207	5	5	7222	5	2
7208	5	9	7223	5	1
7209	4	2	7224	5	3
7210	4a	3	7225	6	1
7211	3	1	7226	6	1
7212	5	1	7227	5	3
7213	5	3	7228	6	4
7214	6	1	7229	5	3
7215	6	5	7230	6	14b

a. Six or more consecutive days of diestrus were observed.
b. Mating not confirmed.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E44 (PAGE 2): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 2			0.3 MG/KG/DAY		
7231	3a	6	7246	5	1
7232	5	6	7247	5	2
7233	6	4	7248	5	2
7234	5	2	7249	5	1
7235	5	2	7250	3a	3
7236	5	3	7251	4	3
7237	3	1	7252	5	4
7238	5	1	7253b		
7239	5	3	7254	5	1
7240	5	1	7255	3a	7
7241	5	2	7256	5	3
7242	6	4	7257	5	2
7243	5	14c	7258	5	4
7244	5	3	7259	5	4
7245	5	3	7260	5	2

a. Six or more consecutive days of diestrus were observed.
b. Rat 7253 was moribund sacrificed on day 62 postweaning (day 3 of estrous cycling).
c. Mating not confirmed.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E44 (PAGE 3): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 3			3.0 MG/KG/DAY		
7261	5	1	7276	5	2
7262	6	4	7277	5	1
7263	5	7	7278	5	2
7264	5	4	7279	5	1
7265	4	2	7280	5	6
7266	6	1	7281	4	6
7267	4	2	7282	5	3
7268	5	1	7283	5	3
7269	3	2	7284	5	2
7270	5	3	7285	5	2
7271	5	3	7286	6	4
7272	6	4	7287	5	2
7273	3	5	7288	5	3
7274	5	3	7289	5	3
7275	5	1	7290	5	3

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E44 (PAGE 4): ESTROUS CYCLING AND DAYS IN COHABITATION - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION	RAT #	PRECOHABITATION ESTROUS STAGES/ 21 DAYS	DAYS IN COHABITATION
DOSAGE GROUP 4			30.0 MG/KG/DAY		
7291	6	1	7306	6	4
7292	4a	3	7307	6	8b
7293	3	1	7308	5	4
7294	6	4	7309	6	4
7295	4	1	7310	5	2
7296	6	2	7311	5	2
7297	6	4	7312	3a	3
7298	6	2	7313	4	1
7299	4a	2	7314	4	1
7300	4	2	7315	5	1
7301	5	6	7316	5	3
7302	5	3	7317	5	2
7303	4	3	7318	5	2
7304	3a	3	7319	4	2
7305	5	2	7320	7	1

a. Six or more consecutive days of diestrus were observed.
b. Dam 7307 was cohabited with a second male rat; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E45 (PAGE 1): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP 1 — 0 (CARRIER) MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
7201	NOT PREGNANT														
7202	22	16	0	16	7	9	7	9	7	9	7	9	7	9	16
7203	NOT PREGNANT														
7204	22	14(1)	0	14	7	6	7	6	7	4	7	4	7	4	14
7205	23	12	0	12	5	7	5	7	5	7	5	7	5	7	13
7206	NOT PREGNANT														
7207	NOT PREGNANT														
7208	22	13	0	13	6	7	6	7	6	7	6	7	6	7	14
7209	NOT PREGNANT														
7210	22	18	0	18	11	7	11	7	11	6	11	6	11	5	18
7211	23	16	1	17	6	10	6	10	6	10	6	10	6	10	17
7212a															
7213	23	17	0	17	9	8	9	8	9	8	9	8	9	8	18
7214	23	16	0	16	7	9	7	9	7	9	7	9	6	9	16
7215	23	15	0	15	10	5	10	4	10	4	10	4	10	4	19
7216	23	13	0	13	11	2	11	2	11	2	11	2	11	2	13
7217	23	17	0	17	6	11	6	11	6	11	6	10	6	10	17
7218	22	15	0	15	10	5	9	5	9	5	9	5	9	5	16
7219	23	13	0	13	7	6	7	6	7	6	7	6	7	6	13
7220	NOT PREGNANT														
7221	NOT PREGNANT														
7222	NOT PREGNANT														
7223	23	2	0	2	1	1	1	1	1	1	1	1	1	1	5
7224	23	13	0	13	8	5	8	5	8	5	8	5	8	5	14
7225	23	12	0	12	4	8	4	8	4	7	4	7	4	7	16
7226	22	16	0	16	5	11	5	9	5	9	5	8	5	8	17
7227	23	16	0	16	9	7	9	7	9	7	9	7	9	7	17
7228	22	18	0	18	11	7	10	7	10	7	10	7	10	7	22
7229	22	14	0	14	5	9	5	9	5	9	5	9	5	9	15
7230	MATING NOT CONFIRMED														

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E45 (PAGE 2): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
7231	23	15	0	15	4	11	4	11	4	11	4	10	4	10	18
7232	24	16	0	16	6	10	6	10	6	10	6	10	6	10	18
7233	23	17	0	17	6	11	6	11	5	11	5	11	5	11	17
7234	22	15	0	15	4	11	4	11	4	11	4	11	4	11	15
7235	23	16	0	16	6	10	6	10	6	10	6	9	6	9	16
7236	23	16	0	16	4	12	4	12	4	12	4	12	4	12	17
7237	23	17	0	17	6	11	6	11	6	10	5	9	5	9	17
7238	22	18	0	18	10	8	10	8	10	7	8	7	8	7	18
7239	23	16	0	16	12	4	10	3	10	3	10	3	10	3	16
7240	23	14	0	14	6	8	6	8	6	8	6	8	6	8	14
7241	23	16	1	17	6	10	6	9	6	9	6	9	6	9	18
7242	22	13	0	13	7	6	7	6	7	6	7	6	7	6	13
7243	MATING NOT CONFIRMED														
7244	23	12	0	12	7	5	7	5	7	5	7	5	7	5	14
7245	23	19	0	19	9	10	9	10	9	10	9	10	9	10	20
7246	22	16	0	16	7	9	7	9	7	9	6	9	6	9	16
7247	23	12	0	12	3	9	3	9	3	9	3	9	3	9	14
7248	23	19	0	19	8	11	8	11	8	11	8	11	8	11	19
7249	23	15	0	15	4	11	4	11	4	11	4	11	4	11	15
7250	23	13	0	13	6	7	6	7	6	7	6	7	6	7	15
7251	23	15	0	15	10	5	10	5	10	5	10	5	10	5	15
7252	23	14	0	14	9	5	9	5	9	5	9	5	9	5	14
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING														
7254	23	19(2)	0	19	9	8	9	8	9	8	9	8	9	8	19
7255	23	14	0	14	3	11	2	11	2	11	2	11	2	11	15
7256	23	14	0	14	5	9	5	9	5	9	5	9	5	9	18
7257	22	15	0	15	7	8	7	8	7	8	7	8	7	8	15
7258	23	14	0	14	10	4	10	4	10	4	10	4	10	4	15
7259	23	17	0	17	10	7	10	7	10	7	10	7	10	7	18
7260	NOT PREGNANT														

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E45 (PAGE 3): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP 3 — 3.0 MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
7261	NOT PREGNANT														
7262	24	16(1)	0	16	8	7	8	7	8	7	8	7	8	7	16
7263	23	15	1	16	9	6	9	6	9	6	9	4	9	4	18
7264	23	16	0	16	9	7	8	7	7	7	7	7	7	7	16
7265	23	15	2	17	7	8	7	7	7	6	6	4	6	4	17
7266	23	14	0	14	4	10	4	10	4	10	4	10	4	10	15
7267	22	13	1	14	5	8	4	8	4	7	4	7	4	6	16
7268	23	12	0	12	6	6	6	6	6	6	6	6	6	6	14
7269	23	15	0	15	12	3	12	3	12	3	11	3	11	3	15
7270	23	14	0	14	5	9	5	9	5	9	5	9	5	9	15
7271	23	15	0	15	14	1	14	1	14	1	12	1	12	1	15
7272	22	17	0	17	10	7	10	6	10	4	10	4	10	4	18
7273	22	16	0	16	10	6	10	6	10	6	10	5	10	5	16
7274	22	18	0	18	7	11	7	11	7	11	7	11	7	9	19
7275	22	15	0	15	8	7	8	7	8	7	8	7	8	7	17
7276	23	15	0	15	4	11	3	10	3	10	3	10	3	10	15
7277	23	11	0	11	4	7	4	7	4	7	4	7	4	7	11
7278	23	15	0	15	7	8	7	8	7	8	7	8	7	8	16
7279	23	16	1	17	7	9	7	9	7	9	7	9	7	9	17
7280	23	9	0	9	2	7	2	7	2	7	2	7	2	7	16
7281	23	16	0	16	10	6	10	6	10	6	10	6	10	6	16
7282	22	11	0	11	5	6	5	6	5	6	5	6	5	6	14
7283	23	17	0	17	14	3	14	3	14	3	14	3	14	3	19
7284	23	7	0	7	2	5	2	5	2	5	2	5	2	5	7
7285	22	18	0	18	9	9	9	9	9	9	9	9	9	9	19
7286	23	19	0	19	12	7	12	7	12	7	12	7	12	7	19
7287	22	16	0	16	7	9	7	9	7	9	7	9	7	9	16
7288	23	17	0	17	8	9	8	9	8	9	7	9	7	9	20
7289	23	8	0	8	4	4	4	4	4	4	4	4	4	4	9
7290	NOT PREGNANT														

M = MALE F = FEMALE
( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E45 (PAGE 4): NATURAL DELIVERY, IMPLANTATION SITES, AND PUP VIABILITY AND SEX - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS/F2 GENERATION LITTERS

DOSAGE GROUP 4 — 30.0 MG/KG/DAY

RAT/ LITTER NUMBER	DURATION OF GESTATION (DAYS) N	LITTER DELIVERED LIVE BORN N	STILL-BORN N	TOTAL BORN N	NUMBER OF LIVE PUPS AT COMPLETION OF DAY POSTPARTUM 1 M	1 F	4 M	4 F	7 M	7 F	14 M	14 F	21 M	21 F	TOTAL IMPLAN-TATIONS N
7291	23	16	0	16	7	9	6	9	6	9	6	9	6	9	17
7292	23	16	1	17	7	9	7	9	7	9	5	8	5	8	17
7293a															
7294	23	14	4	18	6	8	6	8	6	8	6	8	6	8	18
7295	FOUND DEAD ON DAY 22 OF GESTATION														
7296	22	11	1	12	4	7	4	6	4	6	4	6	4	6	12
7297	23	11	0	11	6	5	6	5	6	5	6	5	6	5	15
7298	23	16	0	16	9	7	9	7	9	7	9	7	8	6	16
7299	23	15	0	15	8	7	8	7	8	7	8	7	8	7	15
7300	22	16	0	16	13	3	13	3	13	3	13	3	13	3	17
7301	23	15	0	15	6	9	6	9	6	9	6	9	6	9	16
7302	23	19	0	19	7	12	6	11	6	8	6	8	6	8	20
7303	23	17	0	17	9	8	8	7	8	6	8	6	8	6	17
7304	22	19	0	19	11	8	11	8	11	8	10	7	10	7	20
7305	NOT PREGNANT														
7306	23	17	0	17	9	8	9	8	9	8	9	8	9	8	17
7307	NOT PREGNANT														
7308	23	12	0	12	7	5	7	4	7	4	7	4	7	4	12
7309	23	11	2	13	5	6	5	6	5	6	5	6	5	6	13
7310	23	18	0	18	9	9	9	9	9	9	9	8	9	8	18
7311	22	15	0	15	5	10	5	10	5	10	5	10	5	10	15
7312	22	18	0	18	11	7	11	7	11	7	11	7	11	7	18
7313	23	5	0	5	1	4	1	4	1	4	1	4	1	4	13
7314	23	4	0	4	2	2	2	2	2	2	2	2	2	2	5
7315	23	14(1)	0	14	8	5	8	4	8	4	8	4	8	4	14
7316	23	8	0	8	6	2	6	2	6	2	6	2	6	2	10
7317	23	15	0	15	7	8	7	8	7	7	7	7	7	7	16
7318	23	16	0	16	4	12	4	12	4	12	4	12	4	12	17
7319	NOT PREGNANT														
7320	23	17	1	18	10	7	10	7	10	7	10	7	10	7	18

M = MALE F = FEMALE

( ) = NUMBER OF PUPS DYING PRIOR TO WEIGHING ON DAY 1 POSTPARTUM.

a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E46 (PAGE 1): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

DOSAGE GROUP 1 — 0 (CARRIER) MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
7201	NOT PREGNANT														
7202	6.5	6.2	6.3	9.1	8.7	8.9	13.0	12.5	12.7	25.6	23.3	24.3	37.8	34.0	35.7
7203	NOT PREGNANT														
7204	6.4	6.0	6.2	7.0	6.2	6.6	9.2	8.6	9.0	22.4	22.5	22.4	33.6	32.3	33.1
7205	7.3	6.7	7.0	9.8	8.9	9.3	13.3	13.2	13.2	26.5	25.8	26.1	39.3	38.4	38.7
7206	NOT PREGNANT														
7207	NOT PREGNANT														
7208	6.8	6.6	6.7	9.7	9.7	9.7	13.7	13.5	13.6	26.6	26.7	26.7	41.4	42.8	42.2
7209	NOT PREGNANT														
7210	6.0	5.9	6.0	7.8	7.4	7.7	11.1	10.6	11.0	21.5	20.7	21.2	32.4	31.5	32.1
7211	6.1	5.6	5.8	7.0	6.6	6.8	10.6	9.6	10.0	20.7	19.6	20.0	33.3	32.0	32.4
7212a															
7213	7.3	6.8	7.1	10.0	9.4	9.7	14.4	13.5	13.9	24.8	23.9	24.4	35.4	33.6	34.6
7214	6.4	6.2	6.3	8.9	9.0	9.0	12.7	13.3	13.0	23.4	24.3	23.9	37.2	36.5	36.8
7215	7.3	6.4	7.0	11.2	10.5	11.0	15.6	15.0	15.4	28.9	27.8	28.6	48.2	46.2	47.6
7216	7.0	6.8	7.0	10.0	9.8	9.9	15.1	15.2	15.1	29.5	29.4	29.5	46.2	46.8	46.3
7217	6.4	5.9	6.1	9.0	8.3	8.5	12.9	11.9	12.3	26.2	24.3	25.0	39.7	37.0	38.0
7218	6.6	6.4	6.5	10.0	9.0	9.6	14.5	14.0	14.3	27.0	25.8	26.6	37.9	35.7	37.1
7219	6.9	6.5	6.7	9.7	9.3	9.5	14.9	14.5	14.7	29.0	27.7	28.4	44.3	43.2	43.8
7220	NOT PREGNANT														
7221	NOT PREGNANT														
7222	NOT PREGNANT														
7223	8.6	7.5	8.0	13.8	12.1	13.0	20.8	17.2	19.0	40.8	39.5	40.2	64.3	60.8	62.6
7224	6.7	6.1	6.5	9.2	8.6	9.0	13.2	12.8	13.1	24.7	23.5	24.2	36.5	33.1	35.2
7225	8.1	7.2	7.5	12.2	11.4	11.6	18.0	16.6	17.1	34.8	33.5	34.0	54.4	51.5	52.6
7226	6.3	5.8	6.0	9.4	9.0	9.2	14.4	13.0	13.5	26.8	25.5	26.0	41.8	40.8	41.2
7227	7.6	7.2	7.4	11.1	10.6	10.9	15.8	15.0	15.5	27.4	25.1	26.4	43.6	40.4	42.2
7228	5.7	5.3	5.5	8.2	7.4	7.9	12.0	10.3	11.3	22.6	19.5	21.4	32.6	28.0	30.7
7229	5.9	5.7	5.8	8.5	8.3	8.4	13.1	12.7	12.8	27.0	25.0	25.7	39.9	38.4	39.0
7230	MATING NOT CONFIRMED														

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E46 (PAGE 2): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

DOSAGE GROUP 2 — 0.3 MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
7231	6.9	6.6	6.7	9.5	9.2	9.3	14.2	13.4	13.6	28.3	27.0	27.4	43.1	42.5	42.7
7232	6.6	6.4	6.5	8.3	8.1	8.2	11.3	10.2	10.6	21.0	20.7	20.8	32.8	32.0	32.3
7233	6.4	6.2	6.3	8.4	8.5	8.4	13.5	12.7	13.0	25.5	24.4	24.7	35.9	34.8	35.2
7234	6.6	6.3	6.4	9.5	8.6	8.8	12.7	11.5	11.8	23.8	20.7	21.5	36.1	32.2	33.3
7235	6.7	6.6	6.6	9.3	9.0	9.1	12.8	12.0	12.3	25.1	23.2	24.0	37.0	34.2	35.4
7236	7.6	6.8	7.0	10.9	9.4	9.8	15.1	13.3	13.8	26.5	23.3	24.1	38.8	35.6	36.4
7237	6.4	5.6	5.8	8.2	7.3	7.6	11.0	11.2	11.1	21.3	20.9	21.0	35.1	33.4	34.0
7238	5.8	5.2	5.5	7.1	6.7	6.9	8.5	9.3	8.8	17.6	18.9	18.2	28.7	30.3	29.4
7239	6.3	5.9	6.2	9.9	9.8	9.8	13.9	14.2	13.9	28.3	28.0	28.2	44.9	43.0	44.4
7240	6.8	6.3	6.5	8.2	8.0	8.1	12.0	11.6	11.8	22.7	22.0	22.3	36.0	40.0	38.2
7241	6.6	5.9	6.2	8.8	8.4	8.6	11.6	11.4	11.5	18.3	17.8	18.0	27.9	26.8	27.3
7242	6.7	6.0	6.4	9.6	8.9	9.3	15.2	14.7	15.0	28.9	28.3	28.6	43.1	42.7	42.9
7243	MATING NOT CONFIRMED														
7244	7.8	7.5	7.7	11.7	11.1	11.4	17.9	18.2	18.0	31.2	30.8	31.0	51.5	50.2	51.0
7245	6.4	5.9	6.1	9.3	8.4	8.8	13.2	11.5	12.3	24.2	20.2	22.1	32.7	27.7	30.0
7246	5.6	5.5	5.6	8.3	8.2	8.2	11.6	12.3	12.0	23.3	22.6	22.9	33.6	33.2	33.3
7247	6.7	6.4	6.5	10.0	9.3	9.5	14.3	13.6	13.7	28.3	26.5	26.9	38.4	39.2	39.0
7248	6.6	6.1	6.3	7.9	7.1	7.4	10.7	9.7	10.1	20.8	18.4	19.4	28.8	26.2	27.3
7249	8.0	7.7	7.8	11.6	11.4	11.4	15.8	15.7	15.7	26.9	26.6	26.7	45.1	43.2	43.7
7250	7.5	7.0	7.2	11.3	10.8	11.0	16.4	19.2	17.9	31.2	30.4	30.8	49.4	46.7	48.0
7251	6.4	6.2	6.4	9.1	8.4	8.9	12.8	12.3	12.7	23.4	22.6	23.1	32.0	31.0	31.6
7252	6.4	6.2	6.3	9.1	9.0	9.1	13.6	13.6	13.6	27.5	26.9	27.3	40.1	40.1	40.1
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING														
7254	6.4	6.2	6.3	8.0	7.7	7.9	11.4	10.2	10.8	21.0	19.9	20.5	31.9	28.8	30.4
7255	5.8	5.6	5.6	9.1	7.9	8.1	13.6	11.9	12.1	28.2	26.2	26.5	40.9	38.5	38.9
7256	7.1	6.9	7.0	10.3	9.8	10.0	15.7	14.4	14.8	27.2	25.2	25.9	44.0	40.2	41.5
7257	6.5	5.9	6.2	9.5	8.8	9.1	14.0	12.6	13.3	24.6	23.4	24.0	37.4	34.5	35.8
7258	6.7	6.4	6.6	10.1	9.4	9.9	16.0	15.0	15.7	28.0	26.9	27.7	40.8	40.3	40.6
7259	7.4	7.2	7.3	10.3	9.7	10.0	14.1	12.9	13.6	25.3	22.1	24.0	38.2	35.3	37.0
7260	NOT PREGNANT														

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E46 (PAGE 3): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

DOSAGE GROUP 3 — 3.0 MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
7261	NOT PREGNANT														
7262	6.8	6.6	6.7	9.0	8.5	8.8	12.3	11.9	12.1	22.6	21.2	22.0	34.9	32.7	33.9
7263	6.8	6.0	6.5	9.3	7.2	8.5	12.6	9.8	11.5	24.8	22.1	24.0	38.4	33.7	36.9
7264	6.4	6.3	6.4	7.5	7.4	7.5	11.5	11.8	11.6	23.4	23.5	23.5	32.9	33.6	33.2
7265	6.4	5.9	6.1	7.4	7.0	7.2	9.9	8.3	9.2	23.4	23.6	23.4	39.1	38.6	38.9
7266	6.2	5.8	5.9	9.0	8.2	8.4	12.9	11.8	12.1	23.8	22.3	22.7	35.8	34.2	34.7
7267	5.6	5.5	5.5	6.3	6.5	6.4	9.4	10.1	9.8	21.8	23.2	22.7	38.1	39.6	39.0
7268	7.0	6.6	6.8	8.9	8.4	8.7	13.5	13.1	13.3	27.9	26.2	27.0	39.4	39.1	39.2
7269	6.8	6.6	6.8	9.6	9.3	9.5	15.0	14.7	14.9	27.3	27.8	27.4	38.0	39.0	38.2
7270	6.6	5.8	6.1	9.7	8.9	9.2	13.9	13.2	13.5	26.9	25.5	26.0	36.5	34.1	35.0
7271	7.4	6.8	7.3	7.3	7.3	7.3	9.2	9.1	9.2	21.7	22.7	21.8	35.4	35.7	35.5
7272	6.6	6.2	6.5	9.0	8.6	8.8	11.4	10.8	11.2	23.2	22.8	23.0	35.7	35.3	35.6
7273	6.0	5.4	5.8	8.6	7.6	8.2	12.5	10.8	11.8	23.7	22.5	23.3	35.5	33.4	34.8
7274	6.2	5.8	6.0	9.0	9.0	9.0	12.8	12.3	12.5	22.0	21.8	21.9	30.2	32.3	31.4
7275	6.4	6.2	6.3	9.2	9.1	9.1	13.1	13.2	13.2	24.6	23.8	24.2	37.6	38.0	37.8
7276	6.2	5.4	5.6	8.6	7.4	7.7	12.0	10.5	10.8	24.1	21.3	21.9	36.6	32.6	33.5
7277	7.3	6.9	7.1	10.7	10.1	10.3	16.4	15.3	15.7	31.8	29.6	30.4	49.5	46.4	47.5
7278	6.9	6.4	6.6	9.6	9.2	9.4	14.6	13.8	14.1	26.0	25.2	25.6	39.3	39.1	39.2
7279	7.3	7.2	7.2	10.7	10.5	10.6	14.3	14.5	14.4	24.6	25.3	25.0	37.6	39.3	38.5
7280	7.7	6.8	7.0	10.4	9.7	9.8	16.3	14.6	15.0	32.7	30.5	31.0	52.4	47.6	48.6
7281	6.5	6.0	6.3	8.3	7.6	8.0	12.0	11.0	11.6	22.5	22.2	22.4	37.2	36.5	37.0
7282	6.5	5.8	6.1	10.1	8.9	9.4	14.9	13.2	14.0	29.3	27.4	28.3	48.7	45.4	46.9
7283	7.0	6.9	7.0	9.9	10.1	9.9	13.9	13.8	13.8	22.4	24.2	22.8	35.1	38.4	35.7
7284	6.5	6.6	6.6	10.0	10.6	10.4	15.9	17.0	16.7	33.9	35.1	34.8	55.9	55.1	55.3
7285	5.7	5.5	5.6	7.7	7.5	7.6	11.0	10.6	10.8	20.6	19.8	20.2	29.7	27.6	28.6
7286	6.5	6.0	6.3	8.1	7.6	7.9	12.0	11.9	12.0	21.1	21.0	21.1	30.5	30.4	30.5
7287	6.2	5.9	6.0	9.8	9.1	9.4	13.3	12.7	13.0	22.8	22.9	22.9	36.0	36.1	36.0
7288	7.3	7.4	7.3	10.7	10.7	10.7	15.5	16.0	15.7	26.0	25.8	25.9	39.7	38.5	39.0
7289	8.2	8.0	8.1	13.3	12.9	13.1	21.2	20.4	20.8	41.2	39.4	40.3	63.8	61.1	62.5
7290	NOT PREGNANT														

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E46 (PAGE 4): PUP BODY WEIGHT LITTER AVERAGES FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

DOSAGE GROUP 4 — 30.0 MG/KG/DAY

RAT/ LITTER NUMBER	DAY 1			DAY 4			DAY 7			DAY 14			DAY 21		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
7291	6.6	6.4	6.5	9.2	9.0	9.1	13.8	13.5	13.6	25.4	24.8	25.0	37.4	36.6	37.0
7292	6.9	6.5	6.7	6.4	6.6	6.5	8.6	8.1	8.3	20.1	20.4	20.3	30.0	30.6	30.3
7293a															
7294	6.6	6.2	6.4	8.8	8.2	8.4	13.0	12.3	12.6	24.1	23.1	23.5	37.0	36.4	36.7
7295	FOUND DEAD ON DAY 22 OF GESTATION														
7296	6.0	5.9	5.9	8.7	8.6	8.6	13.6	13.9	13.8	29.8	30.6	30.3	45.7	46.7	46.3
7297	6.8	6.3	6.6	8.8	7.8	8.4	14.0	12.7	13.4	28.9	27.1	28.1	47.4	44.5	46.1
7298	6.4	6.6	6.4	8.0	8.3	8.1	12.2	12.6	12.4	21.9	24.5	23.0	36.0	39.5	37.5
7299	7.4	6.9	7.2	10.8	10.0	10.4	14.6	14.1	14.3	26.5	25.2	25.9	35.5	32.5	34.1
7300	5.8	5.5	5.7	8.4	7.5	8.2	12.8	11.4	12.5	24.7	21.4	24.0	35.3	31.3	34.6
7301	6.8	6.6	6.7	8.8	8.5	8.6	12.5	12.1	12.3	24.1	22.8	23.4	35.9	34.3	34.9
7302	6.6	5.8	6.1	8.4	7.2	7.6	9.8	9.7	9.7	23.0	24.0	23.6	37.8	39.2	38.6
7303	6.6	6.1	6.3	7.9	7.7	7.8	12.0	11.8	11.9	25.5	23.9	24.8	38.0	36.1	37.2
7304	5.8	5.6	5.7	7.3	7.0	7.2	9.8	9.1	9.5	19.4	17.8	18.7	27.9	24.6	26.6
7305	NOT PREGNANT														
7306	7.2	6.8	7.0	9.8	9.2	9.5	13.1	12.5	12.8	23.5	23.6	23.5	33.2	33.0	33.1
7307	NOT PREGNANT														
7308	6.0	6.2	6.1	7.9	9.1	8.3	13.0	15.6	14.0	27.0	31.6	28.6	39.5	47.3	42.3
7309	7.8	7.2	7.5	12.3	11.4	11.8	16.9	16.0	16.4	30.0	28.9	29.4	46.5	43.7	45.0
7310	6.7	6.3	6.5	9.5	8.5	9.0	13.7	12.2	13.0	25.8	23.9	24.9	38.7	36.6	37.7
7311	6.5	5.9	6.1	10.2	9.0	9.4	14.7	12.8	13.4	27.3	24.8	25.6	47.2	41.0	43.0
7312	6.2	5.9	6.1	9.2	8.6	9.0	12.4	11.6	12.1	23.1	21.2	22.4	27.1	26.1	26.7
7313	7.0	6.5	6.6	9.3	9.2	9.3	14.8	14.2	14.3	35.8	34.0	34.4	56.3	51.6	52.5
7314	7.1	7.0	7.0	12.1	12.0	12.0	19.0	19.3	19.2	41.3	41.4	41.4	64.7	63.9	64.3
7315	6.5	6.3	6.4	10.8	10.6	10.7	15.7	14.8	15.4	31.1	30.8	31.0	48.7	48.6	48.6
7316	7.1	6.6	7.0	12.1	11.4	11.9	19.1	17.8	18.8	39.1	36.8	38.5	59.8	57.2	59.2
7317	7.0	6.4	6.7	8.5	7.9	8.2	11.4	10.8	11.1	21.7	21.1	21.4	32.4	31.7	32.1
7318	6.4	6.0	6.1	9.0	8.7	8.8	12.0	12.0	12.0	21.1	21.2	21.2	32.8	31.7	32.0
7319	NOT PREGNANT														
7320	6.6	5.8	6.3	8.4	7.4	8.0	12.4	10.5	11.6	24.1	21.0	22.8	34.1	29.3	32.1

M = MALE F = FEMALE T = TOTAL (SUM OF PUP WEIGHTS/NUMBER OF LIVE PUPS) DAY = DAY POSTPARTUM
ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 1): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY				POSTPARTUM DAY 1					
7201	NOT PREGNANT																			
7202	6.3	6.6	6.9	6.5	6.3	6.3	6.5	6.0	6.3	6.2	5.7	6.0	6.2	6.1	6.4	6.5				
7203	NOT PREGNANT																			
7204	6.2	6.8	6.5	5.8	6.7	6.6	6.5	MD 1	6.1	5.9	5.9	6.4	6.1	5.8						
7205	7.1	7.6	7.2	7.8	7.0	7.0	7.2	6.9	6.6	6.9	5.9	6.3								
7206	NOT PREGNANT																			
7207	NOT PREGNANT																			
7208	7.0	6.7	6.6	7.5	6.3	6.9	6.6	6.0	6.5	6.8	7.0	6.3	6.8							
7209	NOT PREGNANT																			
7210	6.5	6.0	6.4	6.1	6.2	5.6	5.6	6.2	6.2	6.0	5.8	5.6	5.8	5.8	6.1	6.0	6.1	5.9		
7211	6.0	6.0	6.3	6.3	6.2	5.9	MS	5.3	5.3	5.8	5.8	5.5	5.7	5.6	5.7	5.9	5.2			
7212a																				
7213	7.1	7.2	6.8	7.0	7.6	7.8	7.0	7.0	8.4	6.4	7.0	6.8	6.6	7.2	7.2	6.9	6.6			
7214	7.0	6.5	6.1	6.8	6.0	6.1	6.7	6.8	6.0	6.0	6.4	6.0	6.1	6.3	5.9	6.3				
7215	6.5	7.4	7.1	7.6	7.4	7.6	7.6	8.2	5.9	7.8	7.1	7.1	6.1	4.9	6.6					
7216	7.9	7.2	7.1	6.7	6.4	6.5	7.0	7.3	7.4	6.6	7.5	7.0	6.7							
7217	6.5	6.4	6.4	5.8	6.7	6.6	5.9	6.0	6.1	4.4	6.5	6.5	6.2	6.0	6.3	5.6	5.9			
7218	7.1	6.7	7.4	7.1	7.0	5.9	7.4	6.8	3.8	7.1	6.5	7.0	5.4	6.7	6.2					
7219	6.5	7.0	7.0	6.9	6.5	7.1	7.1	6.2	6.6	6.4	6.2	6.6	7.0							
7220	NOT PREGNANT																			
7221	NOT PREGNANT																			
7222	NOT PREGNANT																			
7223	8.6	7.5																		
7224	7.5	7.1	5.8	7.0	6.7	6.2	6.8	6.6	6.3	5.6	6.5	6.3	5.8							
7225	8.5	8.3	8.0	7.5	7.3	6.6	7.8	7.6	7.1	7.0	7.2	7.2								
7226	6.0	6.7	6.0	6.2	6.5	6.2	5.6	5.9	6.2	4.6	4.7	6.0	6.4	6.1	6.0	6.2				
7227	7.6	7.9	8.0	7.2	7.5	8.0	7.2	7.1	7.6	7.2	7.2	7.1	7.0	6.9	7.5	7.6				
7228	5.7	6.2	6.1	5.6	6.2	3.0	6.2	6.0	5.5	5.8	6.2	4.9	5.5	5.4	5.6	5.4	5.2	5.0		
7229	6.1	5.7	6.5	5.8	5.6	5.4	6.4	5.0	5.8	5.4	6.1	5.3	6.3	5.7						
7230	MATING NOT CONFIRMED																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 2): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 1				
7231	7.4	6.6	6.6	6.9	6.4	6.5	7.0	6.4	6.7	6.9	6.7	6.5	6.2	6.4	6.8					
7232	6.6	6.6	6.9	6.3	6.4	6.7	6.4	6.3	6.3	6.7	6.6	6.5	6.3	6.4	6.8	6.1				
7233	6.6	6.4	6.2	6.6	6.2	6.6	6.6	6.5	5.8	6.1	6.4	6.2	5.5	6.6	6.1	6.5	6.2			
7234	6.6	6.6	6.5	6.7	6.0	6.7	5.9	6.2	6.7	6.5	6.5	6.4	6.2	6.3	6.2					
7235	6.0	6.4	7.4	6.7	6.8	6.9	6.9	7.1	6.4	6.8	6.5	6.2	6.7	6.9	6.5	6.3				
7236	8.2	7.0	8.0	7.2	6.8	6.7	7.0	6.8	7.0	6.8	6.7	6.7	7.1	6.4	6.6	7.3				
7237	6.3	5.9	6.2	6.7	6.3	5.6	6.8	5.3	4.2	5.9	5.9	5.7	5.8	5.6	5.8	5.8	5.8			
7238	5.6	5.6	6.9	4.9	5.5	6.0	6.0	5.8	6.1	5.4	5.4	5.3	5.4	5.4	5.7	5.3	5.4	3.9		
7239	6.6	6.4	6.2	6.9	6.2	6.6	6.0	6.1	5.5	5.4	6.8	6.5	5.3	6.2	5.8	6.3				
7240	6.7	6.8	7.1	5.8	6.9	7.3	6.0	6.4	5.8	6.7	6.4	6.0	6.7	6.4						
7241	6.3	6.5	5.9	6.6	8.3	6.1	MS	6.1	5.8	6.0	5.2	6.1	6.1	6.0	6.0	5.8	6.2			
7242	6.8	7.0	6.7	6.2	6.8	6.8	6.8	5.9	6.4	5.9	6.0	6.1	5.9							
7243	MATING NOT CONFIRMED																			
7244	7.6	7.8	7.2	7.5	8.5	8.0	7.9	7.5	7.8	7.6	6.6	8.0								
7245	7.0	6.5	6.3	6.5	6.4	6.3	6.4	6.3	6.0	6.2	5.9	5.6	5.5	6.2	6.3	5.7	5.9	6.1	5.2	
7246	5.6	5.3	5.3	5.7	5.8	5.9	5.6	5.5	5.4	5.8	5.7	5.6	5.6	5.5	5.4	5.4				
7247	6.6	6.8	6.8	6.8	7.1	6.2	6.6	6.6	5.2	6.4	6.5	6.7								
7248	7.2	6.4	6.3	6.9	6.0	6.8	6.8	6.8	6.0	6.4	5.8	6.2	6.4	6.5	5.9	6.6	5.7	5.9	6.0	
7249	7.7	8.2	7.8	8.3	7.3	8.2	7.7	8.0	7.9	7.8	7.5	7.9	7.2	8.0	7.3					
7250	7.5	7.7	7.4	7.6	7.4	7.4	7.0	7.2	6.6	6.7	6.9	7.5	7.0							
7251	6.2	7.1	6.2	6.1	6.4	6.8	6.2	6.6	6.2	6.7	6.0	5.9	6.6	6.5	6.1					
7252	6.8	6.6	6.5	6.6	6.8	6.5	5.4	5.8	6.4	6.6	6.3	5.6	6.3	6.2						
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING																			
7254	6.5	6.7	5.9	6.5	6.2	6.4	6.5	6.6	6.6	6.2	6.0	6.1	6.2	5.7	6.3	6.5	6.7	FD 1	UD 1	
7255	5.9	6.6	4.9	5.8	5.8	5.7	5.5	5.8	5.5	4.9	5.5	5.4	6.4	5.0						
7256	7.2	7.8	7.1	6.8	6.8	6.9	6.9	6.9	6.8	6.8	7.2	6.8	7.1	6.7						
7257	6.4	6.8	6.1	6.3	6.6	6.9	6.3	5.7	6.1	5.7	6.4	5.6	6.0	5.4	6.3					
7258	6.9	6.2	6.5	7.0	6.6	7.1	6.8	6.6	6.1	7.0	6.6	6.5	5.8	6.6						
7259	8.1	7.0	7.2	7.0	7.3	7.8	7.3	7.5	7.1	7.5	7.0	7.5	7.5	7.5	7.2	6.8	7.1			
7260	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 3): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY					POSTPARTUM DAY 1				
7261	NOT PREGNANT																			
7262	7.1	7.0	7.4	6.3	7.1	6.5	6.6	6.8	6.5	6.8	6.2	6.8	6.2	6.5	7.1	FD 1				
7263	6.8	7.4	7.0	6.5	6.9	7.1	6.5	6.8	6.4	MS	6.1	6.8	6.6	5.3	5.5	5.6				
7264	6.7	6.2	6.4	6.2	6.0	6.6	6.5	6.3	6.5	6.3	6.0	6.0	6.4	6.3	6.4	6.9				
7265	6.6	5.4	6.4	7.2	6.9	5.8	6.3	5.8	MS	5.7	5.4	5.6	6.1	6.9	6.4	5.5	FS			
7266	6.0	6.2	6.0	6.4	6.2	5.7	5.4	6.2	5.5	5.9	6.3	6.0	5.6	5.6						
7267	6.2	5.9	6.1	5.2	4.8	5.7	5.6	5.3	5.6	5.5	5.0	5.4	5.7	FS						
7268	7.0	7.0	7.1	7.1	6.9	6.7	6.5	6.6	6.9	6.8	6.3	6.6								
7269	7.0	7.4	7.0	6.6	7.0	6.3	6.5	6.8	7.3	6.5	6.7	6.6	6.5	6.8	6.4					
7270	6.6	7.0	6.3	6.6	6.5	5.9	5.9	6.0	5.9	6.0	5.8	5.7	5.8	5.7						
7271	7.3	6.8	6.9	7.2	7.6	7.6	7.8	7.4	7.5	7.4	7.6	7.2	7.6	7.4	6.8					
7272	6.7	7.1	6.5	6.8	6.2	6.8	6.8	6.8	6.2	6.2	6.4	6.6	6.3	6.0	5.8	6.7	6.0			
7273	6.3	6.1	6.5	5.3	5.9	5.9	6.2	5.9	6.2	6.2	5.6	5.6	4.8	5.7	5.3	5.6				
7274	6.4	6.9	6.4	5.8	6.4	5.8	5.7	5.9	5.9	5.8	5.6	5.8	6.2	6.0	5.8	6.2	6.2	5.0		
7275	6.5	6.8	6.4	5.6	6.8	6.2	6.5	6.4	5.8	5.7	6.7	6.3	6.3	6.8	6.2					
7276	5.6	7.0	6.1	6.2	5.4	5.9	5.9	4.9	5.0	5.9	4.0	5.6	5.6	5.6	5.5					
7277	7.3	7.4	6.9	7.6	6.5	6.7	6.8	7.4	7.3	6.8	7.0									
7278	6.9	7.0	7.1	7.0	6.8	7.1	6.4	6.6	6.5	6.4	6.2	6.5	6.4	6.4	6.1					
7279	7.8	7.3	8.0	6.8	7.2	6.7	7.1	MS	7.2	7.1	7.9	7.2	7.2	7.5	6.8	7.0	6.5			
7280	7.2	8.2	7.0	5.9	7.3	6.6	7.0	6.9	7.1											
7281	6.3	6.8	6.2	6.5	6.3	6.3	6.8	6.3	6.3	6.9	6.0	5.9	6.3	5.8	6.2	5.9				
7282	6.4	5.8	6.8	6.8	6.7	5.9	6.2	5.4	6.0	5.6	5.8									
7283	7.5	6.5	7.2	7.1	7.0	7.0	6.6	7.0	7.1	6.2	7.4	7.2	6.8	MA	7.2	6.6	6.9			
7284	6.4	6.6	6.3	6.5	6.8	7.0	6.5													
7285	5.6	5.8	5.5	5.6	5.8	6.2	5.9	5.5	5.6	5.3	5.4	5.7	5.7	5.6	5.8	5.8	5.2	5.4		
7286	7.0	6.3	6.4	5.7	5.5	7.0	6.3	6.5	6.3	6.7	7.3	6.7	6.4	5:8	5.8	6.3	6.1	5.4	6.1	
7287	6.5	6.2	6.3	6.1	6.2	6.4	5.8	6.0	6.1	5.9	5.4	5.9	6.4	5.5	5.6	6.0				
7288	6.7	7.2	7.9	8.4	6.2	7.9	6.6	7.5	7.2	7.1	7.2	7.3	7.7	7.1	8.4	7.5	6.8			
7289	8.4	8.0	8.1	8.1	7.8	8.1	8.1	7.9												
7290	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 4): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 1				
7291	6.5	6.4	6.7	6.7	6.5	6.2	6.9	6.3	6.4	6.7	6.2	6.4	6.6	6.4	6.1	6.4				
7292	6.2	7.1	7.0	6.7	7.4	6.8	7.1	6.5	5.9	7.1	6.8	6.5	7.4	6.2	6.0	6.5	FS			
7293a																				
7294	6.5	6.5	6.7	6.8	6.8	6.5	MS	MS	MS	MS	6.4	6.4	6.1	5.9	6.2	6.2	6.0	6.4		
7295	FOUND DEAD ON DAY 22 OF GESTATION																			
7296	6.1	5.9	5.9	6.1	MS	6.1	5.9	5.8	5.9	6.1	6.1	5.2								
7297	6.3	6.8	7.1	6.7	7.0	7.2	6.5	6.3	6.3	6.2	6.3									
7298	7.0	5.6	7.6	7.0	5.7	5.9	6.2	5.8	6.4	7.0	6.1	7.3	6.5	6.9	6.6	5.5				
7299	7.3	7.1	7.6	7.6	7.5	7.8	6.9	7.8	7.2	6.8	6.7	6.8	7.4	6.6	7.1					
7300	5.6	5.2	6.0	6.1	5.8	5.8	5.7	5.8	6.0	5.6	6.1	5.8	5.6	5.8	5.4	5.2				
7301	5.8	7.1	7.0	6.9	6.7	7.2	6.8	6.6	6.8	7.0	6.4	6.1	6.6	6.4	6.8					
7302	5.7	7.1	7.0	6.7	5.4	7.4	6.8	6.2	6.4	6.2	6.4	4.9	4.5	4.9	6.2	6.9	6.5	6.4	4.8	
7303	6.1	7.3	6.7	6.9	7.1	7.3	6.4	4.9	6.3	6.5	6.2	6.5	6.0	6.8	4.1	6.2	6.4			
7304	6.0	5.5	5.7	6.0	5.7	5.9	6.1	5.9	6.0	5.7	5.5	5.9	5.4	5.4	5.7	5.5	5.6	5.6	5.4	
7305	NOT PREGNANT																			
7306	7.1	7.8	6.7	7.6	7.1	6.2	7.5	7.0	7.6	7.2	7.3	7.0	6.6	6.4	6.2	6.9	6.8			
7307	NOT PREGNANT																			
7308	6.5	6.9	6.0	5.6	6.6	5.0	5.4	6.3	6.9	5.1	6.3	6.2								
7309	8.0	7.3	8.0	8.4	7.5	7.1	7.5	6.8	7.4	7.2	7.4	FS	FS							
7310	7.1	7.0	7.4	6.5	6.9	7.0	5.3	7.0	6.5	6.5	6.3	6.3	6.4	5.6	6.7	6.2	6.8	6.2		
7311	6.4	6.6	6.4	6.7	6.4	6.2	5.2	5.8	6.2	5.7	6.1	5.7	6.2	6.1	6.0					
7312	6.2	6.3	6.3	6.3	6.3	6.8	6.1	6.1	5.4	5.8	6.4	5.2	6.0	6.2	5.6	5.8	6.2	6.1		
7313	7.0	7.0	6.3	6.3	FA															
7314	7.1	7.1	7.1	6.9																
7315	6.0	6.3	6.2	6.7	6.2	7.0	7.3	6.6	6.0	6.2	6.0	6.2	7.1	FD 1						
7316	7.4	7.2	6.9	6.9	7.6	6.8	6.3	7.0												
7317	6.9	6.6	7.0	7.7	6.8	7.1	6.6	6.6	6.6	7.0	6.4	6.2	6.4	5.7	6.4					
7318	6.6	6.2	6.5	6.2	6.3	6.3	6.2	6.0	5.7	5.9	6.2	6.0	6.0	6.5	4.8	6.0				
7319	NOT PREGNANT																			
7320	6.6	6.7	6.0	6.9	6.8	6.6	6.3	6.7	7.0	6.2	MS	5.8	6.0	5.8	5.8	6.4	6.4	4.6		

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 5): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY				POSTPARTUM DAY 4					
7201	NOT PREGNANT																			
7202	9.3	8.5	8.9	9.4	8.6	9.6	9.7	9.4	9.0	9.3	7.9	8.6	7.9	9.1	8.7	8.7				
7203	NOT PREGNANT																			
7204	6.4	6.2	7.7	7.6	7.0	7.0	7.1	MD 1	5.7	6.6	6.2	6.5	6.7	5.7						
7205	9.8	9.5	9.1	10.3	10.3	9.8	8.9	9.3	9.2	7.5	9.5	8.2								
7206	NOT PREGNANT																			
7207	NOT PREGNANT																			
7208	10.1	9.7	10.5	9.3	10.1	8.5	9.6	9.6	10.3	9.7	9.8	10.0	8.7							
7209	NOT PREGNANT																			
7210	8.2	7.0	8.1	8.5	7.8	7.4	7.9	8.2	7.6	7.7	7.7	7.1	7.0	7.6	6.7	8.5	7.2	7.8		
7211	6.9	6.9	7.0	7.0	7.5	6.9	MS	6.9	6.0	7.0	7.0	6.9	6.3	7.7	6.3	6.3	5.8			
7212a																				
7213	9.8	9.6	8.8	10.0	9.6	9.8	10.8	9.7	12.0	9.6	8.7	10.3	9.7	9.5	9.4	9.2	8.5			
7214	8.2	9.2	9.2	9.9	8.6	7.4	9.9	9.0	9.8	9.2	9.2	9.0	8.6	9.5	8.9	8.3				
7215	11.4	10.6	11.8	11.6	12.4	9.2	11.4	11.3	10.8	11.7	9.2	11.3	10.6	11.0	FM 3					
7216	11.0	10.2	9.9	10.5	9.4	8.5	10.1	8.9	9.8	11.4	9.9	9.8	9.9							
7217	8.3	8.2	9.5	9.7	8.7	9.3	9.0	7.1	9.2	7.7	9.0	8.8	8.3	9.1	5.1	9.2	8.8			
7218	10.4	10.3	9.8	10.4	8.5	10.3	10.0	9.1	11.0	MM 2	8.7	7.7	10.7	9.0	9.1					
7219	9.6	8.6	10.2	10.3	10.4	9.1	9.8	9.1	9.3	9.2	9.8	10.0	8.6							
7220	NOT PREGNANT																			
7221	NOT PREGNANT																			
7222	NOT PREGNANT																			
7223	13.8	12.1																		
7224	10.0	9.4	9.2	9.7	7.7	9.2	8.8	9.4	8.2	9.0	9.4	7.5	9.1							
7225	13.0	11.1	12.5	12.3	12.5	10.5	11.1	11.4	11.4	11.8	11.0	11.2								
7226	9.8	9.2	9.2	9.4	9.6	9.0	9.3	9.5	7.8	9.2	8.8	9.3	8.9	9.6	FM 2	FM 2				
7227	11.5	12.0	11.6	10.4	11.6	12.2	10.5	10.2	10.3	11.1	11.3	10.3	9.7	10.3	10.3	11.4				
7228	8.1	9.3	9.1	7.9	8.6	8.6	7.1	8.4	7.2	8.0	MM 2	8.2	7.1	6.4	7.5	7.5	8.0	6.9		
7229	9.5	7.6	8.4	8.3	8.8	7.8	7.3	8.7	7.0	9.3	8.0	9.3	9.1	8.2						
7230	MATING NOT CONFIRMED																			

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SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 6): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 4				
7231	9.1	9.1	10.1	9.7	9.7	8.6	9.1	8.4	9.2	8.3	9.4	9.7	9.7	9.5	9.4					
7232	8.5	8.6	8.8	8.0	7.7	8.4	7.2	8.7	9.1	8.1	8.0	8.6	6.6	8.5	8.9	7.4				
7233	7.8	7.1	9.1	8.7	9.0	8.6	9.2	8.4	7.8	7.8	9.1	8.0	9.1	9.5	9.2	8.1	7.2			
7234	9.6	8.9	10.2	9.3	7.7	8.6	9.8	8.9	8.1	7.6	8.8	9.8	8.5	8.3	8.0					
7235	10.7	7.8	9.2	9.8	10.0	8.4	8.2	8.1	9.2	9.2	9.3	8.4	10.0	8.4	9.4	9.4				
7236	11.5	11.8	9.6	10.7	8.8	10.2	8.5	9.5	9.8	9.9	9.5	9.7	9.2	9.8	8.6	9.2				
7237	8.8	8.1	8.4	7.7	8.7	8.2	7.2	8.5	7.7	2.8	8.0	7.9	7.6	7.0	7.6	8.0	6.7			
7238	7.2	7.2	7.2	6.8	8.2	6.0	6.9	7.2	7.3	7.2	6.5	7.6	4.8	6.6	6.8	6.8	7.2	7.5		
7239	9.2	10.1	9.6	10.1	9.6	9.4	10.4	10.8	9.6	9.8	MM 2	MM 2	9.6	9.8	10.1	FM 2				
7240	9.0	7.1	8.9	7.8	8.4	8.3	7.5	8.2	7.5	8.1	8.2	7.9	7.7	8.5						
7241	8.4	9.5	9.1	8.3	7.7	9.9	MS	8.0	7.9	8.4	8.5	8.5	9.0	8.5	8.8	8.5	FM 2			
7242	10.0	10.2	9.9	9.6	9.2	9.1	9.6	8.6	8.7	8.8	9.0	9.6	8.7							
7243	MATING NOT CONFIRMED																			
7244	12.2	11.2	12.7	10.6	12.6	12.1	10.8	9.3	11.0	11.5	12.0	11.5								
7245	9.5	9.4	9.1	8.8	10.6	9.2	8.5	8.6	10.1	8.8	8.8	8.4	8.6	8.3	7.1	8.8	8.1	9.1	7.5	
7246	7.2	9.0	9.2	7.8	7.6	8.5	9.1	7.6	7.4	8.6	8.4	8.6	7.0	9.0	8.0	8.9				
7247	10.0	9.9	10.2	10.0	9.8	9.9	9.7	9.4	9.2	7.5	9.0	9.4								
7248	8.3	8.9	7.6	7.0	8.1	8.6	7.4	7.1	7.3	7.5	7.1	5.6	5.9	7.8	8.4	6.4	7.2	7.8	7.0	
7249	11.2	12.6	11.4	11.1	11.8	12.3	10.2	12.6	10.7	12.2	11.7	11.1	10.9	11.3	10.3					
7250	11.0	11.9	11.0	11.7	11.6	10.8	10.2	11.1	11.1	10.6	10.7	10.7	11.1							
7251	9.1	8.7	9.6	8.4	8.9	9.0	10.1	9.0	8.9	9.2	8.3	8.7	9.3	7.3	8.5					
7252	7.8	9.6	9.6	8.1	9.3	9.8	9.6	9.9	8.3	8.6	9.5	9.3	8.0	9.8						
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING																			
7254	7.2	7.9	8.2	7.1	8.6	7.8	8.0	8.3	8.7	7.7	8.0	8.0	7.2	7.3	8.0	8.4	7.3	FD 1	UD 1	
7255	8.4	9.8	MD 2	7.6	7.7	8.2	7.4	7.8	8.6	7.1	6.8	8.3	9.7	8.1						
7256	10.8	10.7	9.9	9.6	10.4	9.7	10.0	10.3	10.2	10.7	10.0	7.9	9.5	10.2						
7257	10.5	9.2	9.3	9.5	8.1	9.2	10.5	8.7	9.6	9.0	8.9	8.2	7.7	8.9	9.6					
7258	10.5	10.3	10.7	9.8	10.0	10.6	10.4	9.5	9.1	10.4	9.9	9.7	8.2	10.0						
7259	10.1	10.2	10.7	10.2	10.4	10.0	11.2	9.6	10.3	10.4	10.4	9.2	9.9	10.0	9.6	10.3	8.4			
7260	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 7): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY					POSTPARTUM DAY 4				
7261	NOT PREGNANT																			
7262	9.6	9.3	9.5	8.1	8.2	9.0	8.4	9.5	8.4	8.2	8.0	9.0	8.9	9.6	7.6	FD 1				
7263	10.0	8.2	8.3	9.6	9.8	8.8	10.3	9.1	9.4	MS	9.2	8.6	8.8	6.1	5.6	5.2				
7264	7.8	7.7	8.6	7.6	7.6	6.0	7.7	7.2	MD 2	6.8	7.5	7.5	7.5	7.7	7.0	8.0				
7265	7.7	7.2	7.0	8.2	6.1	7.7	7.9	7.2	MS	6.5	8.4	7.1	5.9	6.3	7.6	FM 2	FS			
7266	8.8	9.4	9.2	8.7	8.7	7.6	8.0	7.9	7.9	8.2	8.9	7.8	9.4	7.5						
7267	4.3	7.1	7.0	6.7	MM 2	7.0	6.3	6.9	5.8	6.2	7.0	5.8	7.0	FS						
7268	9.2	9.1	8.5	8.8	8.9	9.1	8.3	8.6	8.4	8.3	8.5	8.6								
7269	8.6	9.8	9.2	9.0	9.6	10.1	9.9	10.7	9.3	10.0	9.9	8.7	10.2	9.0	8.8					
7270	9.8	8.6	10.4	10.2	9.7	9.1	8.2	8.7	9.8	8.8	9.0	8.6	8.6	9.1						
7271	7.9	6.8	7.7	6.9	6.6	7.4	7.4	7.0	7.6	7.6	6.7	7.0	7.6	7.8	7.3					
7272	10.2	9.3	9.0	9.6	8.6	8.0	10.0	7.9	8.4	8.7	7.5	9.2	8.6	8.6	9.0	8.5	FD 2			
7273	8.8	8.4	8.4	7.8	8.4	9.1	8.3	8.9	8.9	8.5	7.5	8.1	8.2	6.6	7.9	7.1				
7274	8.4	10.5	8.8	8.9	9.6	8.8	7.9	8.9	9.0	9.5	8.6	9.3	9.4	10.1	8.4	7.3	8.6	9.5		
7275	8.6	9.2	9.6	9.6	9.9	9.3	9.5	7.5	9.8	8.9	9.7	8.2	9.7	9.2	8.5					
7276	9.2	8.5	8.2	MD 2	7.7	8.1	8.0	8.2	5.0	8.2	7.6	6.8	7.4	7.4	FD 3					
7277	11.0	11.1	9.9	10.8	10.1	10.6	9.6	9.8	10.4	10.0	10.4									
7278	9.4	10.2	9.0	9.8	10.2	9.1	9.9	9.6	9.2	9.8	9.3	9.1	9.1	8.0	9.3					
7279	11.3	9.5	11.6	11.6	9.8	10.6	10.8	MS	10.5	10.6	11.8	9.9	10.3	10.2	10.2	9.9	10.9			
7280	9.7	11.2	10.0	10.0	9.6	10.3	7.9	10.2	9.7											
7281	8.5	7.8	8.5	7.9	8.4	8.8	7.7	9.0	8.4	8.3	8.0	7.7	7.2	7.3	8.2	7.2				
7282	9.9	10.0	10.8	10.6	9.0	9.5	9.4	9.7	8.2	8.3	8.5									
7283	9.7	10.7	9.8	10.4	10.9	10.1	9.4	9.1	8.6	9.6	8.5	9.9	10.8	10.9	10.6	10.6	9.1			
7284	10.0	10.1	12.0	9.5	10.4	10.3	10.7													
7285	7.8	7.6	8.0	8.5	8.0	7.0	7.8	7.5	7.3	7.8	7.0	6.7	7.8	7.2	7.7	8.6	6.9	8.2		
7286	9.0	9.4	7.4	8.0	8.2	7.5	8.2	8.7	6.8	6.9	7.7	9.0	8.6	6.3	7.5	7.4	7.2	8.0	8.0	
7287	9.6	8.4	9.8	10.3	11.2	10.0	9.1	9.4	8.7	9.9	7.9	8.4	9.6	9.9	8.8	9.5				
7288	11.9	10.8	10.6	9.0	11.8	11.5	11.5	8.4	9.3	10.9	12.1	10.0	10.1	9.8	11.6	10.4	12.0			
7289	13.4	13.0	13.6	13.2	12.7	12.6	13.3	13.0												
7290	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 8): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 4				
7291	9.1	8.8	9.1	8.9	9.3	10.2	MM 2	9.2	9.0	9.5	9.4	8.6	9.2	8.9	8.8	8.7				
7292	6.0	6.4	7.1	5.7	7.2	6.2	6.4	7.1	6.6	6.7	6.4	6.6	5.8	6.1	6.6	7.2	FS			
7293a																				
7294	8.4	9.1	8.9	8.8	8.7	9.0	MS	MS	MS	MS	7.3	8.9	8.6	7.8	7.9	8.5	7.7	8.7		
7295	FOUND DEAD ON DAY 22 OF GESTATION																			
7296	9.0	8.8	8.5	8.6	MS	7.8	9.3	9.0	8.6	8.7	8.0	FD 2								
7297	8.6	9.7	8.0	9.0	8.4	9.4	8.3	7.1	7.5	7.9	8.1									
7298	7.3	6.9	7.4	9.2	6.1	8.4	9.2	9.3	8.5	7.6	8.9	8.7	5.7	8.1	8.7	10.3				
7299	10.5	11.3	10.2	11.2	10.4	10.8	11.2	10.6	11.2	9.4	10.1	9.6	10.7	9.7	9.4					
7300	8.8	8.4	8.1	8.3	8.7	8.6	8.2	7.3	9.1	8.1	8.8	8.5	8.1	8.1	7.5	7.0				
7301	9.5	8.8	9.2	7.7	9.4	8.0	8.5	8.8	8.1	8.4	8.6	8.4	8.4	7.8	9.3					
7302	8.5	9.4	9.2	8.5	9.0	6.0	MM 4	8.2	7.9	5.0	8.3	7.8	4.0	4.8	7.6	8.2	8.6	8.4	FD 2	
7303	8.4	7.4	7.1	8.1	8.5	8.0	7.7	8.2	MM 4	7.9	7.2	7.2	7.3	8.6	8.0	7.6	FD 2			
7304	8.2	7.6	6.5	7.9	7.8	6.3	6.8	7.6	8.0	7.1	7.0	7.0	7.0	6.6	7.1	6.7	7.6	6.9	7.1	
7305	NOT PREGNANT																			
7306	9.5	9.5	8.4	9.6	10.5	10.0	10.6	9.4	10.9	9.4	9.4	8.3	9.2	8.6	9.7	10.0	9.3			
7307	NOT PREGNANT																			
7308	6.5	9.0	10.0	9.5	8.2	5.3	6.8	9.4	9.0	9.1	8.9	FM 4								
7309	12.9	13.0	12.3	11.7	11.6	11.1	11.4	11.5	11.6	12.2	10.7	FS	FS							
7310	9.5	9.5	9.7	10.8	9.8	10.3	6.8	9.3	9.8	6.8	9.1	8.0	8.6	8.2	8.6	9.2	8.9	9.0		
7311	10.0	10.6	10.5	9.9	10.2	8.6	9.2	9.2	9.4	8.8	8.0	8.6	9.9	8.4	9.4					
7312	9.0	9.6	9.4	9.3	9.2	9.1	9.2	9.2	8.9	9.1	9.5	8.9	9.3	8.8	9.2	7.8	8.7	7.9		
7313	9.3	10.3	9.4	8.8	8.5															
7314	12.2	12.0	12.0	12.0																
7315	10.4	12.3	10.2	10.8	11.2	9.8	10.2	11.4	9.7	10.2	11.5	10.8	FM 4	FD 1						
7316	12.4	12.6	11.8	11.2	12.4	12.3	10.2	12.5												
7317	8.2	8.4	8.7	9.0	8.1	8.8	8.5	7.0	8.1	8.2	8.4	8.0	8.4	7.0	8.1					
7318	9.0	9.2	8.7	9.1	9.7	8.9	9.1	8.9	6.7	8.7	8.6	9.1	9.4	7.9	8.5	9.0				
7319	NOT PREGNANT																			
7320	8.6	8.0	9.2	8.0	8.5	8.8	8.6	8.8	8.0	7.6	MS	7.1	7.6	5.9	8.0	7.5	7.7	7.8		

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 9): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY					POSTPARTUM DAY 7				
7201	NOT PREGNANT																			
7202	13.4	12.4	12.0	13.5	13.6	13.2	12.9	13.7	13.9	11.4	11.5	11.6	13.3	13.4	11.1	12.4				
7203	NOT PREGNANT																			
7204	10.0	11.3	9.9	8.3	9.7	9.3	6.3	MD 1	9.4	8.7	7.2	9.1	FD 7	FD 5						
7205	12.2	12.1	14.2	13.6	14.4	14.1	11.7	14.9	14.2	11.7	14.7	11.1								
7206	NOT PREGNANT																			
7207	NOT PREGNANT																			
7208	15.2	14.2	14.4	13.2	13.7	11.3	14.4	13.6	13.2	12.9	14.2	12.2	14.3							
7209	NOT PREGNANT																			
7210	10.0	10.9	10.6	11.5	10.2	11.7	11.9	11.6	10.9	10.5	12.7	9.7	10.9	9.4	10.9	12.2	10.8	FM 7		
7211	11.2	10.2	11.4	10.9	10.4	9.7	MS	8.5	8.7	9.3	8.1	9.8	9.8	9.6	10.9	10.3	10.5			
7212a																				
7213	13.4	16.6	14.6	16.3	13.2	13.0	15.8	13.4	12.9	13.7	14.0	12.9	14.4	12.8	13.5	13.9	12.6			
7214	14.2	13.4	13.0	13.4	9.5	12.2	13.4	13.4	12.9	14.1	13.9	12.4	12.5	14.5	12.7	13.3				
7215	15.8	15.6	15.9	16.4	16.0	16.0	16.7	15.0	12.3	16.5	15.7	14.8	13.7	15.8	FM 3					
7216	16.3	15.0	14.8	12.0	15.4	14.0	14.9	16.1	15.0	17.4	15.4	15.4	15.0							
7217	14.0	13.0	13.9	12.6	10.7	13.2	12.4	13.2	13.4	12.4	10.9	13.6	10.0	12.5	13.5	7.0	12.5			
7218	16.3	15.6	15.2	14.8	14.0	11.8	14.9	14.6	13.4	MM 2	13.6	14.0	14.4	12.6	15.2					
7219	11.9	16.3	14.7	15.3	15.6	16.0	14.3	14.0	15.8	14.6	14.5	14.3	13.6							
7220	NOT PREGNANT																			
7221	NOT PREGNANT																			
7222	NOT PREGNANT																			
7223	20.8	17.2																		
7224	13.7	13.4	12.6	13.4	13.7	13.7	11.6	13.9	14.2	10.7	13.8	13.2	12.1							
7225	18.7	18.5	18.8	16.0	15.5	15.9	16.2	16.7	16.5	17.8	17.6	FM 6								
7226	14.8	13.9	14.1	14.4	14.8	14.0	13.8	13.9	14.1	12.6	13.8	6.8	14.3	13.7	FM 2	FM 2				
7227	16.3	14.9	17.5	16.8	15.5	16.6	14.4	15.5	14.9	14.8	16.1	14.0	15.2	13.1	15.2	16.9				
7228	12.0	12.8	12.6	11.6	9.3	11.8	14.3	12.0	11.5	12.4	MM 2	10.0	10.2	9.5	11.3	9.2	11.1	10.7		
7229	12.0	12.9	13.3	13.9	13.2	11.5	11.3	12.0	12.4	12.6	13.6	14.0	12.7	14.6						
7230	MATING NOT CONFIRMED																			

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SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 10): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 7				
7231	14.2	13.4	14.4	14.6	12.4	14.8	10.8	13.0	13.9	13.4	14.4	14.3	13.8	13.2	13.2					
7232	11.4	11.7	11.7	10.8	11.0	11.3	11.9	10.5	11.1	10.3	7.8	11.2	9.1	9.7	8.9	11.2				
7233	11.0	15.2	13.6	13.8	13.9	MD 7	13.3	14.4	11.9	12.2	11.0	13.5	14.3	10.0	11.1	13.6	14.5			
7234	12.2	13.2	13.0	12.4	11.7	10.5	10.1	11.0	13.7	10.1	10.5	13.5	12.6	12.7	10.4					
7235	14.5	13.5	13.3	10.6	12.9	11.7	11.2	13.8	11.5	11.0	12.1	11.0	11.6	14.4	12.8	10.4				
7236	15.8	17.9	13.8	12.9	14.7	13.6	13.1	12.7	14.2	14.0	12.1	14.5	13.1	13.1	11.7	13.2				
7237	12.9	12.1	9.7	11.3	10.6	11.5	9.2	10.0	11.7	11.1	13.2	10.5	9.4	11.8	11.6	11.2	FM 5			
7238	8.1	9.5	7.6	8.1	7.7	10.1	6.8	6.9	10.7	9.8	10.0	9.7	9.0	8.7	9.6	9.6	8.7	FD 5		
7239	13.6	16.1	13.7	13.8	14.5	14.0	15.0	10.5	13.6	14.0	MM 2	MM 2	14.7	13.3	14.5	FM 2				
7240	13.5	11.9	12.9	9.7	11.4	12.6	11.9	10.9	12.4	11.6	11.2	11.2	11.8	11.5						
7241	11.0	12.0	13.2	11.3	10.4	12.0	MS	11.0	11.5	11.5	11.6	11.8	11.6	11.2	11.2	11.5	FM 2			
7242	16.1	14.9	14.5	15.2	16.3	13.7	15.9	15.1	15.2	14.4	14.2	15.2	14.3							
7243	MATING NOT CONFIRMED																			
7244	19.8	18.5	17.0	18.2	16.5	18.6	17.0	21.5	19.0	14.7	17.8	17.8								
7245	13.6	12.5	13.1	12.3	11.0	12.8	15.2	12.0	16.0	13.4	9.4	10.7	9.1	12.4	12.2	13.9	11.4	10.8	12.0	
7246	12.9	8.8	14.7	13.9	10.1	13.7	7.1	8.8	14.5	14.1	12.3	9.5	14.6	13.2	13.9	9.6				
7247	14.1	14.3	14.4	14.8	13.3	14.1	14.6	13.3	10.7	13.0	13.9	14.3								
7248	10.2	12.0	10.4	12.1	10.4	9.4	11.4	9.8	10.5	7.6	7.7	10.8	9.8	10.2	9.6	10.2	11.0	11.6	8.1	
7249	15.7	15.3	16.3	16.1	15.1	14.0	16.8	14.9	16.8	16.1	16.2	15.7	15.3	17.1	14.4					
7250	15.9	16.1	15.4	16.5	18.4	16.1	31.1	14.9	27.2	14.9	15.7	16.5	14.4							
7251	12.9	12.3	13.7	13.0	13.1	13.6	11.9	13.6	13.0	11.4	10.6	13.0	11.8	12.7	13.4					
7252	14.6	13.8	13.5	11.9	14.4	13.9	12.6	13.8	13.8	13.1	13.7	14.2	12.6	14.5						
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING																			
7254	11.1	12.7	11.8	11.1	12.0	11.9	8.5	11.2	11.9	10.1	11.8	10.9	9.6	9.1	10.4	10.2	9.6	FD 1	UD 1	
7255	12.6	14.6	MD 2	12.1	12.5	12.2	13.5	11.4	11.8	10.9	9.9	12.4	11.7	12.3						
7256	15.7	14.7	14.2	17.0	16.9	15.1	10.9	14.4	15.5	14.2	15.5	15.1	14.2	14.4						
7257	14.8	14.0	15.5	13.6	13.8	11.4	14.6	13.5	12.5	13.5	13.4	12.0	13.1	12.0	11.2					
7258	15.1	15.7	16.4	17.0	16.0	16.2	16.6	15.3	16.6	14.7	16.2	12.9	15.1	15.9						
7259	15.0	14.3	14.0	13.5	14.5	12.8	13.1	14.2	13.9	15.8	14.1	11.8	13.4	12.1	13.2	13.6	12.1			
7260	NOT PREGNANT																			

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FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 11): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY					POSTPARTUM DAY 7				
7261	NOT PREGNANT																			
7262	11.7	12.4	13.3	12.5	12.0	12.2	11.3	12.7	12.4	11.0	10.3	11.6	13.4	11.4	13.1	FD 1				
7263	12.9	12.6	11.5	12.3	13.7	13.3	12.3	11.2	13.7	MS	12.8	12.0	7.0	11.5	6.6	9.0				
7264	11.7	11.8	11.2	9.4	11.9	11.7	12.9	MM 5	MD 2	12.2	10.0	12.4	12.8	11.9	11.8	11.4				
7265	10.1	10.0	10.0	10.1	8.2	11.2	10.0	8.0	MS	6.8	9.5	7.8	9.7	8.0	FM 6	FM 2	FS			
7266	13.1	12.8	12.8	13.0	11.0	11.5	12.1	13.9	10.1	11.8	13.3	10.8	12.4	11.2						
7267	9.9	10.5	11.3	5.8	MM 2	11.0	11.2	8.4	10.7	9.2	9.8	10.3	FD 7	FS						
7268	14.4	13.4	13.0	13.3	14.0	13.0	13.6	13.1	12.9	13.2	13.4	12.6								
7269	14.4	14.1	15.9	14.9	17.0	14.1	16.2	15.7	15.8	13.4	14.7	13.6	13.2	15.0	15.8					
7270	14.5	13.5	14.7	14.2	12.5	12.4	14.6	12.5	12.2	14.0	13.6	13.4	13.3	13.2						
7271	9.9	6.8	10.7	10.1	9.1	8.7	11.0	9.0	7.9	8.5	10.0	9.8	9.4	8.4	9.1					
7272	11.0	12.2	12.0	9.9	12.5	13.2	10.2	9.6	11.7	11.6	10.1	11.6	11.6	9.7	FD 7	FD 7	FD 2			
7273	12.5	12.2	13.3	11.5	11.8	11.6	13.4	13.0	12.6	12.7	10.9	9.0	10.3	11.2	11.4	11.8				
7274	13.5	11.6	12.8	14.9	11.6	11.8	13.2	12.1	13.3	14.2	13.0	12.2	11.7	11.8	9.7	13.1	12.9	11.5		
7275	13.5	13.4	13.7	11.4	13.6	13.7	12.2	13.4	14.0	14.6	11.7	12.7	11.8	13.1	14.7					
7276	13.2	11.5	11.4	MD 2	11.1	12.3	11.0	11.1	11.9	8.4	11.7	10.0	10.7	6.6	FD 3					
7277	16.6	15.6	16.9	16.5	16.0	15.6	15.7	16.2	14.5	13.9	15.0									
7278	14.7	14.8	14.1	15.2	15.1	14.0	14.2	13.0	13.2	12.6	14.6	13.9	13.8	13.7	15.2					
7279	14.6	13.5	16.2	14.2	14.4	15.5	11.8	MS	15.4	13.4	15.5	13.8	15.2	14.2	13.4	14.6	15.0			
7280	16.7	15.9	15.3	15.2	14.8	15.0	12.1	15.6	14.4											
7281	12.7	12.5	12.4	10.7	12.1	12.7	10.2	12.7	12.4	11.8	12.0	10.7	11.1	10.2	10.5	11.3				
7282	15.8	14.7	13.2	14.8	16.1	14.0	12.4	12.3	14.3	13.9	12.3									
7283	13.6	14.4	12.5	12.8	14.8	15.0	13.5	13.8	14.8	15.3	11.9	15.0	13.3	13.6	15.1	12.9	13.3			
7284	16.3	15.5	16.7	14.9	17.3	16.6	19.6													
7285	10.0	10.3	12.6	12.0	11.4	10.4	12.2	8.9	10.8	11.2	9.1	11.8	10.3	10.8	9.6	9.3	11.3	12.2		
7286	11.4	12.0	11.5	10.8	13.8	12.1	13.7	13.6	13.4	12.4	10.6	9.0	11.4	13.4	12.5	11.3	10.0	11.2	13.3	
7287	15.2	13.5	11.6	13.9	13.9	13.6	11.7	12.9	13.8	11.0	12.7	12.5	12.8	13.6	11.6	13.4				
7288	14.8	11.7	16.7	16.2	16.5	17.4	17.5	13.1	14.2	16.2	15.8	17.5	16.0	15.5	16.8	15.9	15.9			
7289	21.7	20.5	20.9	21.8	20.3	20.1	21.0	20.2												
7290	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 12): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 7				
7291	13.7	14.7	13.2	13.6	14.1	13.8	MM 2	14.1	14.1	13.4	13.3	13.2	13.4	13.1	13.6	13.2				
7292	6.8	7.4	8.8	10.6	9.6	6.7	10.2	8.8	10.1	.3	10.4	9.0	7.1	9.1	9.3	9.1	FS			
7293a																				
7294	14.0	13.1	13.4	12.8	12.4	12.2	MS	MS	MS	MS	13.0	11.5	13.1	13.4	11.8	11.2	11.5	12.8		
7295	FOUND DEAD ON DAY 22 OF GESTATION																			
7296	14.2	14.1	12.4	13.7	MS	14.7	15.2	13.4	14.4	13.2	12.7	FD 2								
7297	14.5	13.0	13.9	13.2	15.0	14.2	12.0	13.1	12.3	12.5	13.7									
7298	11.4	11.1	14.5	13.4	13.2	14.1	7.9	13.3	10.8	12.8	13.8	7.9	15.8	12.9	12.6	12.6				
7299	15.0	14.2	14.2	14.8	14.1	14.7	16.2	13.4	14.8	13.6	14.0	14.1	15.3	13.3	13.5					
7300	13.6	12.8	13.3	13.6	13.1	13.2	11.8	12.6	11.5	12.0	14.0	13.0	12.1	12.5	10.1	11.5				
7301	11.4	12.6	11.1	13.3	13.1	13.5	11.0	13.0	11.9	11.8	12.5	12.0	12.3	12.7	12.1					
7302	10.8	9.5	10.6	7.3	9.4	10.9	MM 4	9.6	9.5	9.7	9.4	10.1	9.9	10.0	FM 5	FM 5	FM 5	9.6	FD 2	
7303	10.9	10.8	12.8	13.0	12.3	12.8	12.4	10.8	MM 4	11.8	11.6	11.9	11.5	11.1	12.9	FD 7	FD 2			
7304	8.7	10.3	9.3	8.6	10.9	9.8	10.0	9.7	9.0	10.3	10.8	9.4	9.2	8.4	8.9	8.6	9.4	10.1	9.1	
7305	NOT PREGNANT																			
7306	11.0	12.8	14.9	14.4	11.2	13.3	12.7	14.8	12.8	12.8	11.0	13.2	12.7	13.1	13.2	12.6	11.1			
7307	NOT PREGNANT																			
7308	15.3	14.6	17.4	8.8	14.1	10.7	10.5	15.2	16.0	15.6	15.4	FM 4								
7309	17.4	16.6	17.7	16.1	16.6	15.9	15.8	16.2	15.6	15.8	16.8	FS	FS							
7310	15.6	13.8	15.4	10.0	13.8	14.2	14.7	13.8	12.4	13.7	13.4	11.3	13.4	12.3	9.1	12.0	13.2	11.0		
7311	14.0	14.7	15.9	14.6	14.3	11.5	12.4	13.5	12.8	13.2	13.6	14.2	13.5	10.5	13.1					
7312	12.8	12.3	13.1	12.4	11.7	12.7	12.1	12.2	13.2	11.6	12.8	10.7	12.6	12.6	11.4	12.1	9.7	12.1		
7313	14.8	16.1	14.1	13.3	13.2															
7314	19.0	19.0	18.9	19.7																
7315	14.0	15.7	14.9	16.1	15.1	18.6	16.3	15.2	15.2	14.2	14.3	15.6	FM 4	FD 1						
7316	17.9	18.8	19.5	19.1	19.9	19.6	16.7	18.8												
7317	11.2	11.6	12.2	11.7	11.0	11.4	10.5	11.4	10.8	11.3	10.7	11.1	11.2	9.3	FM 7					
7318	11.3	12.2	12.8	11.7	13.4	12.7	11.9	9.1	11.7	12.8	12.2	11.7	13.0	12.8	10.9	12.4				
7319	NOT PREGNANT																			
7320	11.0	13.2	11.9	13.2	12.5	12.0	11.3	14.1	12.6	12.1	MS	11.3	7.6	11.7	10.6	10.3	11.9	10.3		

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 13): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY					POSTPARTUM DAY 14				
7201	NOT PREGNANT																			
7202	27.8	26.4	25.6	24.0	25.4	24.0	26.4	21.1	24.5	24.7	22.8	22.0	24.9	22.7	23.9	23.0				
7203	NOT PREGNANT																			
7204	26.0	23.9	24.2	23.6	22.2	14.8	22.1	MD 1	20.5	22.2	22.6	24.8	FD 7	FD 5						
7205	26.1	27.5	28.1	25.1	25.9	24.0	28.6	28.7	24.6	23.2	24.1	27.1								
7206	NOT PREGNANT																			
7207	NOT PREGNANT																			
7208	28.2	25.8	27.9	19.4	30.3	28.0	26.5	25.4	27.4	26.3	26.8	27.6	27.0							
7209	NOT PREGNANT																			
7210	23.0	20.0	21.2	18.1	24.4	23.8	22.0	19.5	19.9	23.6	20.8	22.3	23.8	22.0	16.0	22.2	17.7	FM 7		
7211	21.5	20.2	21.3	21.1	20.9	19.0	MS	21.2	17.6	22.4	19.6	18.3	19.1	15.4	19.0	21.5	21.7			
7212a																				
7213	25.0	22.0	24.3	20.9	24.1	25.4	25.4	29.3	26.6	22.9	23.9	22.9	24.1	23.9	25.3	23.0	25.3			
7214	15.9	25.9	25.4	25.4	22.2	24.7	24.7	23.0	23.5	26.5	20.1	25.8	23.3	25.3	25.9	25.4				
7215	28.1	25.4	28.7	31.2	31.2	29.0	27.4	30.1	29.8	28.5	27.5	27.0	28.2	28.6	FM 3					
7216	28.9	28.7	32.4	22.8	30.2	30.5	29.8	30.0	29.5	32.0	30.0	29.4	29.3							
7217	28.0	26.8	26.8	21.8	28.6	25.0	28.2	20.3	24.1	23.1	27.8	26.2	25.4	21.9	21.0	24.9	FD10			
7218	27.0	25.8	30.6	22.5	29.2	26.3	28.4	27.2	26.3	MM 2	26.0	25.6	26.7	24.1	26.4					
7219	29.4	32.3	30.0	25.4	29.7	27.9	28.0	28.6	28.8	26.4	27.5	27.2	27.7							
7220	NOT PREGNANT																			
7221	NOT PREGNANT																			
7222	NOT PREGNANT																			
7223	40.8	39.5																		
7224	24.1	24.3	24.8	25.4	25.8	25.0	25.4	22.5	24.0	21.7	23.9	23.4	24.4							
7225	30.9	35.3	36.2	36.9	33.4	33.1	35.2	33.8	34.6	32.2	32.2	FM 6								
7226	26.8	26.2	27.2	26.7	26.9	25.1	24.5	25.2	26.1	24.9	25.7	27.1	25.3	FM10	FM 2	FM 2				
7227	29.1	29.5	29.1	28.1	28.6	26.3	25.0	25.4	25.8	23.4	26.1	26.1	22.6	24.5	24.8	28.0				
7228	21.9	23.4	24.0	22.3	17.9	25.6	23.5	21.5	23.1	23.3	MM 2	15.0	21.5	18.4	20.6	21.9	18.0	21.4		
7229	28.8	25.0	26.9	25.0	29.3	27.4	25.2	26.8	24.0	23.9	24.6	24.7	21.9	26.2						
7230	MATING NOT CONFIRMED																			

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FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 14): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 14				
7231	28.5	28.0	28.8	27.9	26.2	29.3	26.8	26.9	27.3	29.4	26.6	27.3	24.7	25.7	FD 9					
7232	22.2	19.8	20.6	21.5	19.6	22.3	22.6	18.2	23.3	18.3	20.6	22.7	20.2	17.0	23.7	20.4				
7233	22.9	27.2	28.0	25.4	24.2	MD 7	17.6	22.3	27.2	25.9	26.5	20.8	27.5	26.3	25.8	24.0	24.0			
7234	21.6	23.5	25.0	24.9	22.1	24.6	16.3	18.4	21.0	21.3	20.4	22.2	21.8	16.6	23.4					
7235	24.6	27.2	29.3	23.9	23.3	22.2	22.2	22.2	23.6	20.8	24.2	22.4	23.1	22.5	28.0	FD 8				
7236	27.0	25.0	23.6	30.3	25.5	23.4	23.6	24.4	24.0	19.8	25.3	22.6	26.4	20.5	21.8	22.3				
7237	22.2	24.8	15.7	22.4	21.6	23.8	MM13	22.6	23.8	22.5	20.4	19.4	15.2	18.7	21.4	FD12	FM 5			
7238	22.6	20.0	16.0	19.4	18.9	13.8	18.2	11.5	MD14	MD12	18.5	19.0	20.4	12.4	20.2	21.6	20.5	FD 5		
7239	28.2	31.0	27.1	27.9	29.1	31.5	27.4	23.9	25.8	31.0	MM 2	MM 2	29.0	26.8	28.2	FM 2				
7240	22.8	25.1	19.4	23.3	22.2	23.6	24.6	22.7	22.3	21.1	21.2	20.9	21.0	22.4						
7241	17.8	15.4	19.8	16.4	21.7	18.5	MS	18.6	23.0	18.6	16.5	14.1	16.4	18.8	17.1	16.9	FM 2			
7242	29.9	30.4	29.9	27.9	28.0	27.8	28.7	28.4	28.2	28.4	28.6	28.1	28.0							
7243	MATING NOT CONFIRMED																			
7244	31.8	31.4	32.6	29.3	30.4	33.6	29.5	31.3	29.6	30.7	32.1	30.4								
7245	24.0	24.1	23.0	24.0	24.5	23.6	23.2	29.1	22.1	21.7	24.0	20.0	20.2	18.7	23.2	17.8	17.4	20.4	18.4	
7246	24.2	26.9	17.6	26.8	26.9	17.6	MD 9	17.9	26.0	19.4	27.0	20.7	25.5	16.4	23.8	26.8				
7247	28.4	28.1	28.4	27.4	27.0	26.7	27.2	27.2	28.6	27.3	28.3	18.7								
7248	19.1	22.0	20.1	19.7	17.6	23.8	21.9	22.6	23.0	20.9	17.8	18.6	22.4	19.4	16.1	16.1	13.7	21.0	13.1	
7249	26.8	24.9	26.6	29.4	26.3	28.5	26.7	26.6	27.7	27.1	26.9	26.0	25.1	24.5	27.5					
7250	28.5	31.9	32.0	31.6	31.2	31.7	29.2	31.8	30.9	30.2	28.6	30.3	32.0							
7251	22.3	24.6	21.3	23.4	23.0	25.4	24.4	24.2	25.2	20.3	24.4	21.7	19.5	24.3	23.1					
7252	26.0	28.7	28.6	25.9	28.3	29.6	27.0	26.2	26.9	27.8	25.3	28.3	28.9	24.2						
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING																			
7254	22.1	22.9	19.9	13.6	23.8	23.0	21.2	19.7	23.3	21.8	21.8	20.8	16.7	15.5	19.9	21.4	21.3	FD 1	UD 1	
7255	28.7	27.7	MD 2	26.5	26.0	27.3	25.2	26.7	26.6	26.4	26.5	26.5	25.7	24.4						
7256	26.7	25.7	25.6	29.0	28.8	25.8	25.8	26.4	25.6	24.7	24.7	27.3	18.1	28.2						
7257	26.5	20.2	25.8	25.3	25.6	24.2	24.8	22.5	25.2	22.5	23.9	25.6	24.6	20.7	22.6					
7258	28.6	26.9	28.9	29.1	26.6	28.1	25.8	30.7	28.5	27.2	23.6	28.2	27.7	28.2						
7259	26.6	27.7	23.8	25.9	24.2	25.1	25.1	27.2	22.0	25.3	24.9	19.8	22.4	23.2	20.0	24.8	19.4			
7260	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 15): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3											3.0 MG/KG/DAY				POSTPARTUM DAY 14				
7261	NOT PREGNANT																			
7262	23.2	21.6	24.9	19.6	22.0	21.6	23.4	24.3	20.9	18.9	21.3	23.1	19.3	20.2	25.0	FD 1				
7263	25.7	25.3	24.2	25.0	23.4	26.1	24.4	24.0	25.4	MS	14.6	24.8	24.9	24.0	FM14	FD12				
7264	21.9	24.4	21.7	20.4	26.0	25.3	24.5	MM 5	MD 2	21.7	24.3	24.8	25.1	22.1	20.0	26.8				
7265	26.1	23.0	20.3	24.3	23.3	23.1	MM 8	26.1	MS	23.6	17.6	27.0	FM 9	FD 9	FM 6	FM 2	FS			
7266	24.8	23.9	22.7	23.6	23.2	19.4	23.3	22.6	23.9	24.3	19.6	22.3	22.2	21.9						
7267	15.0	23.4	22.9	25.9	MM 2	26.2	23.1	23.8	19.8	23.0	23.7	22.5	FD 7	FS						
7268	27.4	29.0	27.6	28.1	27.8	27.6	25.3	26.2	26.5	26.9	25.2	26.8								
7269	25.5	27.2	27.2	29.1	27.4	29.9	27.4	27.0	29.6	22.8	27.2	MD 8	29.1	26.1	28.3					
7270	27.8	27.2	29.2	25.8	24.5	24.0	25.0	26.0	25.6	24.1	24.9	27.0	26.3	26.6						
7271	23.5	23.2	23.4	21.0	21.0	23.5	19.3	22.6	18.9	23.2	21.9	19.0	MM11	MD10	22.7					
7272	26.8	23.8	23.9	25.0	23.0	21.2	20.4	23.3	21.8	22.5	21.2	23.7	23.8	22.3	FD 7	FD 7	FD 2			
7273	25.0	22.0	24.3	23.6	24.9	24.2	21.1	25.2	24.0	23.1	22.9	20.4	23.6	21.9	23.6	FD 9				
7274	23.3	21.5	20.3	25.1	24.0	19.4	20.2	24.4	22.1	24.3	27.0	22.8	16.5	23.1	20.9	16.0	25.3	18.0		
7275	25.2	27.3	25.4	23.8	25.4	22.3	21.4	25.9	21.8	24.3	22.5	23.5	26.4	26.4	22.0					
7276	24.4	23.8	24.2	MD 2	23.0	24.0	21.5	21.9	15.3	23.8	22.0	21.7	21.4	18.1	FD 3					
7277	29.9	32.2	32.9	32.2	30.1	28.9	29.2	29.4	28.2	30.5	30.8									
7278	25.7	24.6	24.4	26.9	27.0	26.4	26.9	24.3	26.0	25.4	26.4	25.5	24.1	23.7	26.2					
7279	26.7	26.8	25.8	24.1	26.7	23.8	18.0	MS	25.6	24.0	24.6	27.1	23.0	24.3	27.3	25.8	25.8			
7280	33.4	32.0	31.2	27.3	31.4	31.2	29.3	31.1	31.9											
7281	19.2	20.6	22.3	21.3	24.5	19.6	24.5	24.6	24.5	24.2	21.3	20.7	18.6	24.4	25.1	23.4				
7282	29.3	31.4	27.5	30.4	28.0	26.9	27.0	28.1	29.1	26.8	26.8									
7283	23.4	20.0	20.7	24.2	24.7	22.9	21.7	24.6	21.7	20.1	21.4	24.2	23.8	20.7	25.7	22.1	24.9			
7284	33.4	34.4	37.5	36.8	32.9	34.1	34.3													
7285	22.0	20.5	19.4	16.4	23.0	20.5	20.3	22.6	20.4	15.8	21.7	22.9	19.3	20.2	20.2	18.4	20.9	18.9		
7286	20.0	25.8	16.3	22.3	21.4	16.0	19.5	25.3	24.2	19.5	25.0	18.4	19.6	24.0	23.6	25.3	18.4	18.4	17.4	
7287	26.9	19.6	24.0	20.9	23.1	22.2	22.9	24.3	18.5	23.9	23.3	25.0	26.0	22.6	21.7	21.2				
7288	25.6	27.6	20.3	27.9	26.6	26.2	27.8	MD12	25.0	25.6	26.9	24.9	23.6	26.8	26.8	27.6	25.5			
7289	41.1	42.0	41.0	40.6	40.0	39.4	37.9	40.4												
7290	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 16): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 14				
7291	24.0	26.3	25.0	27.4	25.9	23.6	MM 2	26.5	26.5	23.3	24.8	24.6	24.5	23.8	25.5	24.1				
7292	20.6	19.7	16.1	21.7	22.4	MM14	MD11	22.6	20.2	20.8	22.1	16.7	20.1	19.5	21.6	FM10	FS			
7293a																				
7294	22.7	26.9	23.6	21.4	25.0	24.9	MS	MS	MS	MS	23.5	25.3	20.9	25.1	21.8	21.6	24.9	21.8		
7295	FOUND DEAD ON DAY 22 OF GESTATION																			
7296	29.4	31.8	28.6	29.6	MS	30.8	32.8	30.6	28.5	30.0	31.0	FD 2								
7297	29.0	29.3	27.5	30.3	29.9	27.6	27.4	26.5	27.9	26.2	27.5									
7298	25.6	27.8	25.8	25.8	19.0	23.0	20.9	11.1	18.5	29.3	27.1	27.5	13.5	25.8	24.6	23.6				
7299	26.6	26.8	26.3	26.9	28.1	26.0	26.4	25.1	24.5	25.8	25.2	27.0	24.0	26.0	23.8					
7300	24.4	24.2	24.4	25.9	25.4	26.2	24.9	26.6	23.1	24.7	21.4	22.9	26.6	24.6	18.5	21.0				
7301	23.2	23.1	26.4	26.2	23.9	21.9	23.6	24.3	21.4	23.4	22.8	23.6	23.2	23.5	19.8					
7302	23.7	22.8	23.7	19.2	25.3	23.4	MM 4	23.3	23.4	24.7	24.5	25.4	21.8	24.2	FM 5	FM 5	FM 5	24.5	FD 2	
7303	24.8	24.5	25.2	22.8	25.9	25.9	27.5	27.2	MM 4	22.2	23.3	24.1	25.6	24.2	23.9	FD 7	FD 2			
7304	20.4	15.4	21.2	21.5	17.3	20.6	19.7	18.3	18.2	21.4	MD 9	18.4	17.8	18.7	17.5	16.9	17.8	17.6	FD 8	
7305	NOT PREGNANT																			
7306	23.8	24.1	24.9	22.0	23.8	25.8	18.2	21.5	27.4	25.8	24.9	23.2	25.5	23.4	22.0	20.8	22.9			
7307	NOT PREGNANT																			
7308	35.0	31.2	31.1	32.1	21.6	17.7	20.1	31.8	31.7	31.3	31.4	FM 4								
7309	29.0	30.3	30.6	31.0	28.9	27.7	29.0	29.3	29.6	29.0	28.9	FS	FS							
7310	28.4	30.5	28.5	24.5	28.3	24.3	29.8	21.3	17.0	21.1	26.7	21.1	24.3	25.2	21.8	29.2	21.7	FD 9		
7311	28.0	28.0	28.3	24.8	27.3	25.6	25.1	25.2	26.0	23.2	24.3	26.0	23.9	23.8	24.4					
7312	23.1	25.0	24.2	22.1	23.3	20.2	25.9	20.4	25.7	23.5	21.0	21.8	22.6	21.8	21.1	21.7	18.3	21.3		
7313	35.8	36.8	33.5	31.5	34.2															
7314	41.7	40.9	38.5	44.4																
7315	31.5	31.2	33.2	28.6	31.2	30.3	29.9	32.8	31.8	29.8	31.1	30.5	FM 4	FD 1						
7316	39.0	40.0	40.7	38.8	38.7	37.5	34.9	38.6												
7317	21.0	19.0	22.0	24.5	22.8	23.4	19.2	20.7	22.6	20.7	24.0	16.7	23.0	20.1	FM 7					
7318	20.8	17.7	23.6	22.2	21.9	22.0	22.2	21.7	22.3	22.8	21.7	15.4	21.1	21.6	21.3	21.1				
7319	NOT PREGNANT																			
7320	26.4	25.4	25.3	24.0	22.6	22.2	23.5	24.5	23.2	24.2	MS	20.6	22.2	23.5	20.0	23.0	14.0	23.8		

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 17): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1										0 (CARRIER) MG/KG/DAY			POSTPARTUM DAY 21						
7201	NOT PREGNANT																			
7202	38.3	40.1	36.1	37.8	37.9	36.4	38.2	32.3	34.4	32.4	36.6	37.1	36.0	32.9	30.9	33.2				
7203	NOT PREGNANT																			
7204	38.9	35.5	24.4	36.1	33.9	32.6	33.5	MD 1	32.0	32.0	32.9	32.4	FD 7	FD 5						
7205	41.2	38.9	38.8	39.3	38.1	42.3	40.7	41.5	35.0	36.2	36.6	36.2								
7206	NOT PREGNANT																			
7207	NOT PREGNANT																			
7208	44.3	48.8	27.1	41.6	44.9	41.8	45.4	41.6	47.1	41.2	41.1	40.2	43.0							
7209	NOT PREGNANT																			
7210	31.3	32.2	34.9	36.1	33.8	30.2	29.8	29.5	31.6	35.2	31.7	25.7	33.4	34.1	32.7	31.6	FM16	FM 7		
7211	36.6	30.9	30.3	33.4	33.6	34.9	MS	29.6	28.2	30.3	30.6	34.7	30.6	37.4	38.0	25.3	34.8			
7212a																				
7213	37.1	33.8	35.4	30.4	33.4	43.4	34.1	32.5	38.6	32.0	35.3	31.1	33.0	37.4	34.3	33.9	32.2			
7214	38.5	38.3	40.0	34.3	34.9	37.3	MD18	26.6	38.2	38.2	38.2	36.3	39.4	36.9	37.6	36.8				
7215	48.7	48.1	45.0	44.8	48.2	47.7	47.4	49.4	52.6	50.3	47.9	46.8	46.3	43.7	FM 3					
7216	49.5	46.0	47.2	46.1	46.1	35.4	48.2	48.6	45.8	47.9	47.4	48.1	45.6							
7217	37.2	42.1	45.0	33.2	42.8	38.1	42.4	40.9	40.3	37.6	34.3	37.8	37.5	33.2	32.3	33.9	FD10			
7218	38.3	41.8	39.9	37.8	37.9	39.7	30.8	35.0	40.0	MM 2	35.8	37.0	35.9	32.2	37.7					
7219	37.9	46.5	41.9	46.0	45.2	46.3	46.2	41.1	45.2	45.2	42.3	45.4	39.8							
7220	NOT PREGNANT																			
7221	NOT PREGNANT																			
7222	NOT PREGNANT																			
7223	64.3	60.8																		
7224	35.4	35.7	35.1	36.8	38.7	38.1	35.2	37.0	33.6	34.2	34.1	32.0	31.8							
7225	52.7	59.4	57.8	47.6	49.4	56.4	52.6	50.8	51.8	51.2	48.5	FM 6								
7226	40.5	43.0	41.9	42.5	41.3	39.4	43.2	42.9	41.4	38.7	40.0	41.1	39.3	FM10	FM 2	FM 2				
7227	43.4	47.8	40.4	39.9	41.0	48.9	43.2	45.3	42.1	37.9	36.0	42.4	43.0	41.3	41.7	40.8				
7228	32.4	34.0	32.6	36.8	33.1	34.0	33.5	30.9	31.3	27.5	MM 2	30.4	30.7	25.9	25.3	19.8	32.0	31.6		
7229	42.1	39.7	42.6	39.3	35.9	34.5	33.2	37.1	38.4	42.1	38.0	42.8	42.0	37.6						
7230	MATING NOT CONFIRMED																			

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FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 18): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2										0.3 MG/KG/DAY					POSTPARTUM DAY 21				
7231	41.7	43.8	42.3	44.5	42.3	39.5	46.5	41.0	43.4	42.0	47.0	40.7	41.6	41.1	FD 9					
7232	31.7	34.2	31.2	34.3	30.8	34.3	33.8	33.6	31.7	29.6	38.5	30.4	25.6	35.0	35.4	26.1				
7233	34.7	39.6	33.7	34.5	37.2	MD 7	25.6	32.8	37.5	32.0	31.8	35.0	37.9	36.3	39.5	35.7	38.9			
7234	38.2	37.6	33.4	35.3	37.4	35.2	34.1	25.2	25.0	33.4	32.9	27.5	33.1	34.3	36.4					
7235	33.8	38.9	39.3	39.2	36.0	35.0	32.0	33.2	39.6	34.3	31.0	34.7	39.0	32.0	32.5	FD 8				
7236	37.9	34.5	40.7	42.0	41.3	38.2	33.4	33.8	32.4	38.8	35.9	33.1	35.8	38.0	33.1	33.6				
7237	40.2	35.9	37.0	35.5	27.0	39.1	MM13	38.6	32.8	36.2	34.2	35.9	31.5	20.6	31.6	FD12	FM 5			
7238	36.1	22.1	33.2	31.7	26.3	27.0	30.5	22.7	MD14	MD12	33.3	33.9	22.0	30.9	30.8	31.3	29.8	FD 5		
7239	45.9	46.2	41.3	43.0	49.5	44.5	44.2	39.2	49.0	45.8	MM 2	MM 2	42.2	42.2	44.6	FM 2				
7240	37.7	28.4	40.6	38.8	34.8	35.5	33.2	41.3	36.3	34.8	34.4	38.3	33.5	67.8						
7241	31.9	27.3	26.4	26.1	28.1	27.6	MS	31.3	29.3	26.4	26.6	26.3	26.0	26.0	23.8	25.8	FM 2			
7242	41.8	45.5	43.7	43.1	43.8	41.0	42.7	44.0	41.9	42.6	41.8	42.6	43.2							
7243	MATING NOT CONFIRMED																			
7244	51.7	51.4	50.9	54.3	46.6	54.5	51.0	51.7	51.8	49.2	46.0	52.3								
7245	37.7	33.8	31.8	32.7	29.8	33.4	30.9	32.9	31.2	34.4	26.2	25.2	23.2	30.1	25.4	29.2	24.8	28.3	30.1	
7246	37.1	37.1	37.9	26.4	34.8	28.2	MD 9	31.4	37.9	30.1	27.4	36.8	27.2	36.3	36.4	35.1				
7247	39.2	36.9	39.2	38.9	27.0	38.7	40.9	41.7	42.3	43.2	39.6	40.8								
7248	30.7	30.3	24.6	26.2	31.6	30.9	27.6	28.5	19.4	26.7	20.3	23.3	27.1	26.2	33.0	26.5	32.8	28.4	24.0	
7249	47.8	44.9	43.6	44.2	40.9	44.5	41.6	40.2	43.4	43.2	44.5	44.4	45.4	43.9	43.2					
7250	50.3	50.4	50.4	44.0	49.8	51.4	45.7	47.6	47.1	44.9	44.7	50.6	46.5							
7251	33.4	33.0	32.2	30.2	30.5	32.0	27.6	33.5	32.4	34.7	33.7	31.8	29.9	32.6	26.8					
7252	44.2	39.3	38.5	39.1	38.3	37.0	43.8	39.9	40.9	37.1	36.7	42.0	41.9	42.7						
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING																			
7254	34.4	30.8	29.6	35.6	35.4	31.5	36.1	20.4	33.3	29.6	32.0	30.5	31.9	21.0	23.8	31.6	30.1	FD 1	UD 1	
7255	40.2	41.6	MD 2	37.8	38.7	37.6	35.4	41.0	39.1	36.4	40.3	41.6	37.8	38.2						
7256	40.1	44.6	42.0	45.2	48.1	42.0	37.6	31.7	47.3	44.3	44.5	36.6	35.7	41.9						
7257	30.0	40.0	39.2	36.8	37.0	39.2	39.3	39.3	35.2	29.6	35.9	31.8	34.1	36.6	33.8					
7258	39.1	40.8	44.3	38.8	42.2	40.5	43.1	40.4	38.0	40.9	40.7	42.2	36.5	41.7						
7259	31.5	37.6	36.0	44.3	38.0	37.7	41.5	37.9	41.5	35.5	32.9	30.0	39.6	32.4	33.1	37.1	41.9			
7260	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 19): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3										3.0 MG/KG/DAY					POSTPARTUM DAY 21				
7261	NOT PREGNANT																			
7262	36.2	32.0	37.2	35.7	38.5	32.9	33.5	33.2	29.4	36.8	30.8	32.9	29.6	33.3	36.2	FD 1				
7263	39.7	37.6	36.9	40.3	35.7	41.6	38.5	37.1	38.1	MS	36.9	36.9	38.5	22.4	FM14	FD12				
7264	35.4	35.3	37.7	30.6	29.4	31.6	30.4	MM 5	MD 2	29.8	38.8	33.8	33.4	35.2	34.4	29.7				
7265	41.3	44.3	39.8	39.8	33.2	36.0	MM 8	43.3	MS	41.9	40.1	29.0	FM 9	FD 9	FM 6	FM 2	FS			
7266	35.2	31.8	38.0	38.1	30.7	34.7	33.6	36.0	37.0	34.6	30.0	35.4	33.3	37.2						
7267	29.4	42.9	40.6	39.4	MM 2	34.8	40.2	43.6	39.3	39.4	40.0	FD17	FD 7	FS						
7268	39.2	42.2	38.5	37.2	41.1	38.2	38.7	38.9	40.0	39.8	39.2	38.1								
7269	37.2	40.2	42.6	39.2	39.1	37.3	36.7	40.5	33.7	36.8	35.3	MD 8	38.6	39.5	38.9					
7270	34.2	41.2	36.8	36.6	33.8	36.3	35.2	34.0	32.2	33.9	37.4	32.6	31.9	33.3						
7271	34.4	36.4	38.0	34.3	35.1	36.0	33.5	35.0	36.8	36.7	33.2	36.1	MM11	MD10	35.7					
7272	33.0	33.8	38.7	34.9	33.2	39.9	34.6	35.8	38.2	34.9	33.9	35.3	36.6	35.4	FD 7	FD 7	FD 2			
7273	35.5	35.2	34.9	38.7	37.4	34.1	34.3	38.0	30.7	36.0	34.4	31.2	35.0	34.0	32.4	FD 9				
7274	28.1	33.2	33.6	29.3	31.6	28.8	26.7	34.4	35.5	29.0	31.0	39.2	40.6	26.3	30.5	24.0	FD18	FD18		
7275	39.7	39.2	41.0	30.6	31.9	39.8	38.8	39.6	37.7	34.3	42.7	42.1	36.7	37.8	34.7					
7276	38.0	36.4	35.3	MD 2	35.0	33.1	31.9	35.3	35.8	25.6	35.0	33.3	28.7	31.8	FD 3					
7277	46.3	51.1	51.0	49.5	48.9	44.6	45.3	48.3	45.4	48.0	44.5									
7278	38.7	40.1	38.3	41.1	42.3	36.9	37.6	39.5	38.9	38.9	39.0	37.0	37.5	40.3	41.4					
7279	39.3	25.0	36.2	41.8	41.6	41.2	38.1	MS	43.5	37.6	42.3	39.8	40.4	38.4	36.4	36.8	38.2			
7280	52.9	51.8	48.7	49.6	46.9	47.4	49.7	48.2	42.4											
7281	34.9	39.9	34.9	40.0	34.8	36.2	42.0	31.0	38.0	40.7	38.9	34.3	36.7	40.5	32.7	35.8				
7282	46.4	49.7	49.7	46.4	51.1	43.4	47.7	47.1	45.1	45.4	43.9									
7283	28.4	37.0	31.9	34.8	35.4	29.0	35.4	36.8	37.0	38.6	33.1	38.3	40.6	35.3	43.3	34.5	37.5			
7284	55.9	55.9	56.3	53.6	52.1	58.1	55.2													
7285	28.1	34.0	31.9	31.4	28.2	32.4	27.8	27.9	25.3	28.1	27.1	28.8	25.9	20.6	29.7	27.8	29.7	30.8		
7286	28.8	28.6	27.2	21.0	25.8	31.5	37.6	26.6	33.6	34.7	34.0	36.8	24.8	32.0	36.3	34.9	29.3	27.0	28.6	
7287	34.8	42.9	38.1	36.0	38.7	35.9	25.5	34.2	36.1	34.9	36.8	37.2	38.5	30.2	38.6	38.4				
7288	41.0	41.1	38.1	43.3	31.5	41.0	41.9	MD12	41.5	39.8	36.7	40.1	36.4	43.1	38.8	36.7	33.5			
7289	64.7	64.0	60.8	65.9	61.5	63.1	59.2	60.6												
7290	NOT PREGNANT																			

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E47 (PAGE 20): PUP BODY WEIGHTS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION LITTERS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4										30.0 MG/KG/DAY					POSTPARTUM DAY 21				
7291	38.3	37.6	37.6	37.4	39.3	34.5	MM 2	38.5	37.6	38.6	35.3	34.6	37.1	33.0	37.4	37.6				
7292	31.3	25.8	30.3	29.4	33.1	MM14	MD11	32.2	32.2	32.0	30.7	30.6	27.1	29.8	30.0	FM10	FS			
7293a																				
7294	38.7	35.9	37.4	34.0	38.0	38.3	MS	MS	MS	MS	37.1	33.3	33.5	38.3	39.4	38.6	35.3	36.0		
7295	FOUND DEAD ON DAY 22 OF GESTATION																			
7296	44.5	45.8	45.4	47.0	MS	43.4	47.3	48.8	46.9	47.3	46.7	FD 2								
7297	50.2	48.4	47.7	48.5	43.2	46.3	44.6	45.3	45.2	44.6	42.9									
7298	41.5	39.3	37.1	42.0	29.5	34.8	33.9	29.6	MM15	35.8	43.5	42.1	38.6	37.9	38.9	FM18				
7299	32.8	36.6	33.6	34.6	37.3	36.2	33.9	38.7	33.4	34.6	32.1	31.2	31.1	31.2	33.9					
7300	34.8	36.6	33.9	36.8	35.5	36.5	35.5	38.2	35.5	37.6	35.6	32.2	30.6	27.6	37.0	29.3				
7301	39.2	37.4	33.0	36.7	34.3	34.7	34.8	33.1	35.1	35.4	33.7	36.0	31.8	34.8	33.7					
7302	37.2	41.6	31.0	40.1	41.0	36.2	MM 4	38.7	35.4	40.1	41.1	41.0	38.6	40.3	FM 5	FM 5	FM 5	38.4	FD 2	
7303	36.2	35.2	37.2	40.4	38.4	39.5	39.6	37.5	MM 4	34.4	36.3	35.6	37.6	36.6	36.1	FD 7	FD 2			
7304	30.5	25.4	28.9	29.2	30.4	29.8	29.3	26.2	26.3	23.2	MD 9	26.0	22.7	23.2	25.5	23.2	25.8	25.9	FD 8	
7305	NOT PREGNANT																			
7306	33.8	29.3	30.0	38.4	28.8	34.0	33.7	37.0	34.0	32.5	32.2	35.3	32.3	33.5	31.9	34.3	31.7			
7307	NOT PREGNANT																			
7308	46.5	51.9	23.6	29.0	49.0	48.4	28.0	47.4	47.7	46.3	47.9	FM 4								
7309	48.6	47.0	46.7	46.5	43.8	45.9	43.7	42.6	45.6	41.1	43.4	FS	FS							
7310	44.0	25.3	39.9	32.7	43.5	46.4	34.3	43.1	39.5	33.5	42.4	34.1	33.2	38.1	42.9	30.0	38.2	FD 9		
7311	43.4	46.7	47.7	48.1	50.0	37.5	42.9	41.2	40.5	40.2	41.4	43.9	41.5	39.8	40.6					
7312	27.0	28.6	27.7	29.2	29.0	25.0	24.9	27.8	29.7	23.7	25.1	27.0	27.6	26.5	25.7	23.6	26.6	25.7		
7313	56.3	53.0	55.3	49.8	48.2															
7314	61.8	67.6	57.9	69.9																
7315	52.4	49.1	48.1	45.0	47.7	49.6	48.1	49.3	51.2	49.7	47.1	46.2	FM 4	FD 1						
7316	57.7	61.1	59.7	60.7	62.0	57.9	58.6	55.9												
7317	34.5	32.9	30.6	33.3	28.6	34.3	33.0	32.9	32.2	33.4	32.7	34.6	30.8	25.4	FM 7					
7318	36.8	28.0	33.7	32.7	30.2	31.1	31.9	33.8	35.5	32.9	29.2	32.8	32.3	34.5	32.8	23.8				
7319	NOT PREGNANT																			
7320	33.0	36.9	36.3	36.2	34.8	31.7	33.5	32.4	33.4	32.5	MS	30.9	31.8	19.4	33.2	30.4	28.0	31.3		

ALL WEIGHTS WERE RECORDED IN GRAMS (G). MEAN LITTER WEIGHTS INCLUDE ONLY WEIGHTS OF LIVE PUPS.
FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E48 (PAGE 1): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 1																				0 (CARRIER) MG/KG/DAY		
7201	NOT PREGNANT																						
7202	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
7203	NOT PREGNANT																						
7204	M	A	M	A	M	A	M	A	M	A	M	A	MD	1	F	A	F	A	F	A	FD	7	FD 5
7205	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A			
7206	NOT PREGNANT																						
7207	NOT PREGNANT																						
7208	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	
7209	NOT PREGNANT																						
7210	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	FM16	FM 7
7211	M	A	M	A	M	A	M	A	M	A	M	S	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
7212a																							
7213	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
7214	M	A	M	A	M	A	M	A	M	A	M	A	MD	18	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
7215	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	FM	3		
7216	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A						
7217	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	FD10			
7218	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	MM	2	F	A	F	A	F	A	F	A				
7219	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A										
7220	NOT PREGNANT																						
7221	NOT PREGNANT																						
7222	NOT PREGNANT																						
7223	M	A	F	A																			
7224	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A		
7225	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	FM	6				
7226	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	FM10	FM 2	FM 2
7227	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A		
7228	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	MM	2	F	A	F	A	F	A	F	A	F	A
7229	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A								
7230	MATING NOT CONFIRMED																						

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E48 (PAGE 2): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 2																		0.3 MG/KG/DAY				
7231	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD 9								
7232	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A							
7233	M A	M A	M A	M A	M A	MD 7	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A						
7234	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A								
7235	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD 8							
7236	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A							
7237	M A	M A	M A	M A	M A	F A	MM13	F A	F A	F A	F A	F A	F A	F A	F A	FD12	FM 5						
7238	M A	M A	M A	M A	M A	M A	M A	M A	MD14	MD12	F A	F A	F A	F A	F A	F A	F A	FD 5					
7239	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	MM 2	MM 2	F A	F A	F A	FM 2							
7240	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A									
7241	M A	M A	M A	M A	M A	M A	M S	F A	F A	F A	F A	F A	F A	F A	F A	F A	FM 2						
7242	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A										
7243	MATING NOT CONFIRMED																						
7244	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A											
7245	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A				
7246	M A	M A	M A	M A	M A	M A	MD 9	F A	F A	F A	F A	F A	F A	F A	F A	F A							
7247	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A											
7248	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A			
7249	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A								
7250	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A										
7251	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A							
7252	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A								
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING																						
7254	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	FD 1	UD 1				
7255	M A	M A	MD 2	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A								
7256	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A									
7257	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A							
7258	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A								
7259	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A					
7260	NOT PREGNANT																						

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E48 (PAGE 3): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 3																					3.0 MG/KG/DAY	
7261	NOT PREGNANT																						
7262	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	FD 1						
7263	M A	M A	M A	M A	M A	M A	M A	M A	M A	M S	F A	F A	F A	F A	FM14	FD12							
7264	M A	M A	M A	M A	M A	M A	M A	MM 5	MD 2	F A	F A	F A	F A	F A	F A	F A							
7265	M A	M A	M A	M A	M A	M A	MM 8	F A	M S	F A	F A	F A	FM 9	FD 9	FM 6	FM 2	F S						
7266	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A									
7267	M A	M A	M A	M A	MM 2	F A	F A	F A	F A	F A	F A	FD17	FD 7	F S									
7268	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A										
7269	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	MD 8	F A	F A	F A								
7270	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A									
7271	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	MM11	MD10	F A								
7272	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	FD 7	FD 7	FD 2					
7273	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	FD 9						
7274	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD18	FD18				
7275	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A								
7276	M A	M A	M A	MD 2	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A	FD 3								
7277	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A												
7278	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A								
7279	M A	M A	M A	M A	M A	M A	M A	M S	F A	F A	F A	F A	F A	F A	F A	F A	F A						
7280	M A	M A	F A	F A	F A	F A	F A	F A	F A														
7281	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A							
7282	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A												
7283	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A					
7284	M A	M A	F A	F A	F A	F A	F A																
7285	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A					
7286	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A				
7287	M A	M A	M A	M A	M A	M A	M A	F A	F A	F A	F A	F A	F A	F A	F A	F A							
7288	M A	M A	M A	M A	M A	M A	M A	MD12	F A	F A	F A	F A	F A	F A	F A	F A	F A	F A					
7289	M A	M A	M A	M A	F A	F A	F A	F A															
7290	NOT PREGNANT																						

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E48 (PAGE 4): PUP VITAL STATUS AND SEX FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RAT/ LITTER #	MATERNAL DOSAGE GROUP 4																				30.0 MG/KG/DAY		
7291	M	A	M	A	M	A	M	A	M	A	MM	2	F	A	F	A	F	A	F	A	F	A	F	A	F	A			
7292	M	A	M	A	M	A	M	A	MM	14	MD	11	F	A	F	A	F	A	F	A	F	A	F	A	FM	10	F	S	
7293a																							
7294	M	A	M	A	M	A	M	A	M	A	M	A	M	S	M	S	M	S	M	S	F	A	F	A	F	A	F	A	F	A	F	A	
7295	FOUND DEAD ON DAY 22 OF GESTATION																						
7296	M	A	M	A	M	A	M	A	M	S	F	A	F	A	F	A	F	A	F	A	FD	2											
7297	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A													
7298	M	A	M	A	M	A	M	A	M	A	M	A	M	A	MM	15	F	A	F	A	F	A	F	A	F	A	FM	18					
7299	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A							
7300	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A			
7301	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A							
7302	M	A	M	A	M	A	M	A	M	A	MM	4	F	A	F	A	F	A	F	A	F	A	F	A	F	A	FM	5	FM	5	FM	5	F	A	FD	2
7303	M	A	M	A	M	A	M	A	M	A	M	A	MM	4	F	A	F	A	F	A	F	A	F	A	F	A	FD	7	FD	2			
7304	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	MD	9	F	A	F	A	F	A	F	A	F	A	F	A	F	A	FD	8
7305	NOT PREGNANT																						
7306	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A			
7307	NOT PREGNANT																						
7308	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	FM	4											
7309	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	S	F	S									
7310	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	FD	9	
7311	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A									
7312	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	
7313	M	A	F	A	F	A	F	A															
7314	M	A	M	A	F	A	F	A															
7315	M	A	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	FM	4	FD	1							
7316	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A							
7317	M	A	M	A	M	A	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	FM	7							
7318	M	A	M	A	M	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A					
7319	NOT PREGNANT																						
7320	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	S	F	A	F	A	F	A	F	A	F	A	

FIRST LETTER -- M-MALE, F-FEMALE, U-SEX UNDETERMINABLE
SECOND LETTER -- A-ALIVE, S-STILLBORN, D-DIED, M-MISSING (PRESUMED CANNIBALIZED)
NUMBER FOLLOWING "SECOND LETTER" INDICATES THE DAY POSTPARTUM THE EVENT OCCURRED.
a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E49 (PAGE 1): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
1 0 (CARRIER)	7204	1	1/14 PUPS: PORTION OF TAIL MISSING.
		2-5	1/13 PUPS: PORTION OF TAIL MISSING.
		6-7	1/12 PUPS: PORTION OF TAIL MISSING.
		8-21	1/11 PUPS: PORTION OF TAIL MISSING.b
	7210	6	1/18 PUPS: COLD TO TOUCH, THIN IN APPEARANCE, NOT NURSING.
	7226	7-9	1/14 PUPS: COLD TO TOUCH, THIN IN APPEARANCE, NOT NURSING.
2 0.3	7237	4	1/17 PUPS: COLD TO TOUCH.
	7247	7	1/12 PUPS: PORTION OF TAIL BLACK, PORTION OF TAIL MISSING.
		8-21	1/12 PUPS: PORTION OF TAIL MISSING.b
	7248	10	1/19 PUPS: COLD TO TOUCH.
3 3.0	7263	4	1/15 PUPS: PALE IN APPEARANCE.
	7264	1	1/16 PUPS: BLUE IN COLOR.
	7266	1-21	1/14 PUPS: PORTION OF TAIL MISSING.b
	7267	15	1/11 PUPS: HEAD, LESION (0.2 CM IN DIAMETER); COLD TO TOUCH.
		16	1/11 PUPS: HEAD, LESION (0.2 CM IN DIAMETER)b; LEFT AXILLA, LESION (0.2 CM IN DIAMETER)b; COLD TO TOUCH.
	7278	5-7	1/15 PUPS: LEFT SIDE OF BACK, LESION (0.01 CM X 0.3 CM); BEHIND RIGHT EAR, LESION (0.03 CM X 0.3 CM).
	7289	7	1/8 PUPS: PENIS, OFF-WHITE MASS (0.1 CM IN DIAMETER).

a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E49 (PAGE 2): CLINICAL OBSERVATIONS FROM BIRTH TO DAY 21 POSTPARTUM - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
4 30.0	7292	13	1/14 PUPS: COLD TO TOUCH, THIN IN APPEARANCE, LABORED BREATHING.
	7306	4-21	1/17 PUPS: UMBILICAL HERNIA.b
	7310	9	1/18 PUPS: THIN IN APPEARANCE, COLD TO TOUCH, NO MILK APPARENT IN STOMACH.

a. Tabulation restricted to adverse observations; all other pups appeared normal.
b. Observation confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E50 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
1 0 (CARRIER)	7201	DG 25	NP	111	ALL TISSUES APPEARED NORMAL.
	7202	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7203	DG 25	NP	112	ALL TISSUES APPEARED NORMAL.
	7204	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7205	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7206	DG 25	NP	112	ALL TISSUES APPEARED NORMAL.
	7207	DG 25	NP	112	ALL TISSUES APPEARED NORMAL.
	7208	DL 21	P	133	ALL TISSUES APPEARED NORMAL.
	7209	DG 25	NP	109	ALL TISSUES APPEARED NORMAL.
	7210	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7211	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7212	DG 25	P	108	UTERUS: BILATERAL HORNS, MODERATE HYDROMETRA. THIS OBSERVATION IS CONSIDERED TO REFLECT AN EXPECTED CHANGE IN THE UTERUS ASSOCIATED WITH ESTROUS CYCLING. UTERINE CONTENTS: ONE IMPLANTATION SITE (ONE EARLY RESORPTION IN UTERO). ALL TISSUES APPEARED NORMAL.
	7213	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7214	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7215	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7216	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7217	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7218	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7219	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7220	DG 25	NP	107	ALL TISSUES APPEARED NORMAL.
	7221	DG 25	NP	106	ALL TISSUES APPEARED NORMAL.
	7222	DG 25	NP	107	ALL TISSUES APPEARED NORMAL.
	7223	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7224	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7225	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7226	DL 21	P	122	ALL TISSUES APPEARED NORMAL.
	7227	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7228	DL 21	P	121	ALL TISSUES APPEARED NORMAL.
	7229	DL 21	P	115	ALL TISSUES APPEARED NORMAL.
	7230	DP 109	NP	109	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DP = DAY POSTWEANING DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table E33) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E50 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
2					
0.3	7231	DL 21	P	131	ALL TISSUES APPEARED NORMAL.
	7232	DL 21	P	132	ALL TISSUES APPEARED NORMAL.
	7233	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7234	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7235	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7236	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7237	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7238	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7239	DL 21	P	127	EXTERNAL OBSERVATIONS: LEFT EYE, CHROMODACRYORRHEA;INCISORS, UPPER BILATERAL, MISSING/BROKEN, MISALIGNED. ALL OTHER TISSUES APPEARED NORMAL.
	7240	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7241	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7242	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7243	DP 120	NP	120	ALL TISSUES APPEARED NORMAL.
	7244	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7245	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7246	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7247	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7248	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7249	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7250	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7251	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7252	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7253	DP 62	-	62	MORIBUND SACRIFICED ON DAY 62 POSTWEANING. SPLEEN: LARGE (5.11 G). ALL OTHER TISSUES APPEARED NORMAL.
	7254	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7255	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7256	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7257	DL 21	P	124	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DP = DAY POSTWEANING DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table E33) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E50 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
2 (Cont.)					
0.3	7258	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7259	DL 21	P	117	ALL TISSUES APPEARED NORMAL.
	7260	DG 25	NP	97	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DP = DAY POSTWEANING DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table E33) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E50 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
3					
3.0	7261	DG 25	NP	109	ALL TISSUES APPEARED NORMAL.
	7262	DL 21	P	130	ALL TISSUES APPEARED NORMAL.
	7263	DL 21	P	132	ALL TISSUES APPEARED NORMAL.
	7264	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7265	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7266	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7267	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7268	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7269	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7270	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7271	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7272	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7273	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7274	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7275	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7276	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7277	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7278	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7279	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7280	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7281	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7282	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7283	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7284	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7285	DL 21	P	123	NO NECROPSY OBSERVATIONS WERE RECORDED.
	7286	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7287	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7288	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7289	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7290	DG 25	NP	107	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DP = DAY POSTWEANING DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table E33) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E50 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
4					
30.0	7291	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7292	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7293	DG 25	P	109	UTERINE CONTENTS: THREE IMPLANTATION SITES (THREE EARLY RESORPTIONS IN UTERO). ALL TISSUES APPEARED NORMAL.
	7294	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7295	DG 22	P	106	FOUND DEAD ON DAY 22 OF GESTATION (DEATH OCCURRED OVERNIGHT). EXTERNAL OBSERVATIONS: RED PERIVAGINAL SUBSTANCE. UTERINE CONTENTS: 16 IMPLANTATION SITES (11 DEAD FETUSES, FOUR LATE RESORPTIONS AND ONE EARLY RESORPTION IN UTERO).b ALL OTHER TISSUES APPEARED NORMAL.
	7296	DL 21	P	126	ALL TISSUES APPEARED NORMAL.
	7297	DL 21	P	129	ALL TISSUES APPEARED NORMAL.
	7298	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7299	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7300	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7301	DL 21	P	130	ALL TISSUES APPEARED NORMAL.
	7302	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7303	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7304	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7305	DG 25	NP	108	ALL TISSUES APPEARED NORMAL.
	7306	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7307	DG 25	NP	114	ALL TISSUES APPEARED NORMAL.
	7308	DL 21	P	127	ALL TISSUES APPEARED NORMAL.
	7309	DL 21	P	128	ALL TISSUES APPEARED NORMAL.
	7310	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7311	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7312	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7313	DL 21	P	123	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DP = DAY POSTWEANING DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table E33) for external observations confirmed at necropsy.
b. Appeared normal for their developmental ages at the time maternal death occurred.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E50 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

DOSAGE GROUP TARGET DOSAGE (MG/KG/DAY)	RAT NUMBER	DAY OF NECROPSY	PREGNANCY STATUS	DAYS WITH ACCESS TO TEST ARTICLE	OBSERVATIONS a
4 (Cont.)					
30.0	7314	DL 21	P	124	ALL TISSUES APPEARED NORMAL.
	7315	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7316	DL 21	P	125	ALL TISSUES APPEARED NORMAL.
	7317	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7318	DL 21	P	123	ALL TISSUES APPEARED NORMAL.
	7319	DG 25	NP	106	SPLEEN: ONE CLEAR FLUID-FILLED CYST (APPROXIMATELY 0.2 CM IN DIAMETER). ALL OTHER TISSUES APPEARED NORMAL.
	7320	DL 21	P	113	ALL TISSUES APPEARED NORMAL.

P = PREGNANT NP = NOT PREGNANT
DP = DAY POSTWEANING DG = DAY OF (PRESUMED) GESTATION DL = DAY OF LACTATION
a. Refer to the individual clinical observations table (Table E33) for external observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E51 (PAGE 1): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
7201 NP	---	0.017	----	2.03	----	10.67	----	2.40	----	0.092	----	0.69	----
7202	371.	0.016	4.31	2.11	0.57	21.59	5.82	3.26	0.88	0.105	0.03	0.72	0.19
7203 NP	---	0.015	----	2.13	----	12.86	----	2.56	----	0.083	----	0.73	----
7204	312.	0.013	4.17	2.28b	0.73	18.63	5.97	3.13	1.00	0.088	0.03	0.54	0.17
7205	337.	0.012	3.56	2.08	0.62	17.90	5.31	3.28	0.97	0.114	0.03	0.69	0.20
7206 NP	---	0.014	----	2.18	----	12.67	----	2.39	----	0.087	----	0.74	----
7207 NP	---	0.021	----	2.07	----	13.35	----	2.99	----	0.103	----	0.81	----
7208	350.	0.012	3.43	2.27	0.65	18.58	5.31	3.08	0.88	0.109	0.03	0.73	0.21
7209 NP	---	0.018	----	2.17	----	11.78	----	2.48	----	0.068	----	0.61	----
7210	370.	0.020	5.40	2.21	0.60	23.50	6.35	3.82	1.03	0.120	0.03	1.04	0.28
7211	343.	0.014	4.08	2.23	0.65	22.59	6.59	3.22	0.94	0.118	0.03	0.57	0.17
7212c	---	0.016	----	2.11	----	9.37	----	2.22	----	0.080	----	0.68	----
7213	381.	0.016	4.20	2.17	0.57	21.93	5.76	3.33	0.87	0.105	0.03	0.73	0.19
7214	330.	0.015	4.54	2.16	0.65	21.70	6.58	3.34	1.01	0.111	0.03	0.74	0.22
7215	353.	0.020	5.66	1.96	0.56	20.23	5.73	3.33	0.94	0.115	0.03	0.84	0.24
7216	351.	0.016	4.56	2.17	0.62	18.88	5.38	3.05	0.87	0.110	0.03	0.61	0.17
7217	328.	0.016	4.88	2.11	0.64	17.58	5.36	3.35	1.02	0.118	0.04	0.84	0.26
7218	344.	0.010	2.91	1.99	0.58	18.35	5.33	2.62	0.76	0.112	0.03	0.81	0.24
7219	383.	0.018	4.70	2.40b	0.63	22.00	5.74	3.85	1.00	0.149	0.04	0.68	0.18
7220 NP	---	0.024	----	2.13	----	13.17	----	2.82	----	0.076	----	0.60	----
7221 NP	---	0.020	----	2.14	----	14.30	----	2.58	----	0.095	----	0.65	----
7222 NP	---	0.018	----	2.16	----	12.55	----	2.46	----	0.097	----	0.64	----
7223	380.	0.015	3.95	2.27	0.60	16.03	4.22	3.06	0.80	0.088	0.02	0.77	0.20
7224	350.	0.016	4.57	2.17	0.62	16.65	4.76	3.27	0.93	0.102	0.03	0.87	0.25
7225	359.	0.018	5.01	2.28	0.64	18.98	5.29	3.38	0.94	0.115	0.03	0.70	0.19
7226	365.	0.020	5.48	2.32	0.64	20.01	5.48	3.64	1.00	0.122	0.03	0.88	0.24
7227	352.	0.017	4.83	2.19	0.62	21.71	6.17	3.51	1.00	0.099	0.03	0.65	0.18
7228	360.	0.017	4.72	2.32b	0.64	19.85	5.51	3.32	0.92	0.125	0.03	0.58	0.16
7229	362.	0.016	4.42	2.22	0.61	21.67	5.99	3.34	0.92	0.120	0.03	0.77	0.21
7230 NP	---	0.011	----	2.03	----	11.37	----	2.25	----	0.078	----	0.49	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E51 (PAGE 2): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY	
7201 NP	---	0.114	----	0.020	----	1.01	----
7202	371.	0.106	0.03	0.025	6.74	1.56	0.42
7203 NP	---	0.099	----	0.025	----	1.06	----
7204	312.	0.102	0.03	0.023	7.37	1.28	0.41
7205	337.	0.138	0.04	0.021	6.23	1.31	0.39
7206 NP	---	0.125	----	0.021	----	1.02	----
7207 NP	---	0.169	----	0.028	----	1.14	----
7208	350.	0.115	0.03	0.026	7.43	1.18	0.34
7209 NP	---	0.106	----	0.017	----	0.97	----
7210	370.	0.110	0.03	0.020	5.40	1.55	0.42
7211	343.	0.126	0.04	0.018	5.25	1.21	0.35
7212b	---	0.110	----	0.019	----	0.98	----
7213	381.	0.138	0.04	0.019	4.99	1.40	0.37
7214	330.	0.175	0.05	0.028	8.48	1.25	0.38
7215	353.	0.120	0.03	0.020	5.66	1.11	0.31
7216	351.	0.054	0.02	0.022	6.27	1.38	0.39
7217	328.	0.114	0.03	0.024c	7.32	1.34	0.41
7218	344.	0.116	0.03	0.022	6.40	1.47	0.43
7219	383.	0.119	0.03	0.023	6.00	1.38	0.36
7220 NP	---	0.108	----	0.021	----	1.22	----
7221 NP	---	0.130	----	0.024	----	1.15	----
7222 NP	---	0.130	----	0.025	----	1.31	----
7223	380.	0.133	0.04	0.027	7.10	1.29	0.34
7224	350.	0.128	0.04	0.020	5.71	1.33	0.38
7225	359.	0.151	0.04	0.021	5.85	1.49	0.42
7226	365.	0.125	0.03	0.020	5.48	1.56	0.43
7227	352.	0.171	0.05	0.024	6.82	1.48	0.42
7228	360.	0.166	0.05	0.019	5.28	1.35	0.38
7229	362.	0.116	0.03	0.021	5.80	1.43	0.40
7230 NP	---	0.121	----	0.020	----	1.05	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
c. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E51 (PAGE 3): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
7231	396.	0.018	4.54	2.16	0.54	22.14	5.59	3.44	0.87	0.120	0.03	0.94	0.24
7232	387.	0.014	3.62	2.23	0.58	20.99	5.42	3.36	0.87	0.108	0.03	0.74	0.19
7233	388.	0.018	4.64	2.18	0.56	21.70	5.59	3.79	0.98	0.117	0.03	0.78	0.20
7234	353.	0.017	4.82	2.11	0.60	18.70	5.30	3.28	0.93	0.106	0.03	0.98	0.28
7235	356.	0.013	3.65	2.46	0.69	17.80	5.00	3.35	0.94	0.108	0.03	0.90	0.25
7236	364.	0.015	4.12	2.15	0.59	20.16	5.54	3.35	0.92	0.113	0.03	0.71	0.20
7237	368.	0.017	4.62	2.20	0.60	20.51	5.57	3.91	1.06	0.116	0.03	0.49	0.13
7238	350.	0.015	4.28	2.10	0.60	20.78	5.94	3.36	0.96	0.099	0.03	0.63	0.18
7239	b	0.013	----	2.22	----	17.03	----	3.08	----	0.096	----	0.76	----
7240	361.	0.020	5.54	2.12	0.59	21.47	5.95	3.41	0.94	0.081	0.02	0.58	0.16
7241	356.	0.015	4.21	2.31	0.65	23.24	6.53	3.73	1.05	0.111	0.03	0.75	0.21
7242	347.	0.013	3.75	2.24	0.64	18.91	5.45	3.22	0.93	0.095	0.03	0.69	0.20
7243 NP	---	0.019	----	2.05	----	11.59	----	2.63	----	0.082	----	0.63	----
7244	353.	0.019	5.38	2.21	0.63	21.20	6.00	3.34	0.95	0.110	0.03	0.72	0.20
7245	376.	0.025	6.65	2.42	0.64	20.81	5.53	3.66	0.97	0.129	0.03	0.97	0.26
7246	340.	0.016	4.70	2.20	0.65	18.80	5.53	3.15	0.93	0.103	0.03	0.73	0.21
7247	360.	0.016	4.44	2.28	0.63	21.20	5.89	2.92	0.81	0.106	0.03	0.79	0.22
7248	349.	0.011	3.15	2.29	0.66	21.08	6.04	2.77	0.79	0.123	0.04	0.89	0.26
7249	342.	0.015	4.38	2.20	0.64	17.44	5.10	3.23	0.94	0.094	0.03	0.75	0.22
7250	389.	0.018	4.63	2.32	0.60	20.67	5.31	3.32	0.85	0.098	0.02	0.73	0.19
7251	298.	0.016	5.37	2.35	0.79	16.81	5.64	3.19	1.07	0.090	0.03	0.53	0.18
7252	360.	0.012	3.33	2.19	0.61	19.74	5.48	3.27	0.91	0.127	0.04	0.85	0.24
7253c	---	0.013	----	1.83	----	12.36	----	2.63	----	0.120	----	5.11	----
7254	340.	0.017	5.00	2.09	0.61	20.36	5.99	3.36	0.99	0.116	0.03	0.91	0.27
7255	335.	0.017	5.07	2.19	0.65	18.43	5.50	3.04	0.91	0.087	0.02	0.67	0.20
7256	388.	0.019	4.90	2.32	0.60	21.49	5.54	3.55	0.91	0.103	0.03	0.84	0.22
7257	393.	0.019	4.83	2.35	0.60	21.56	5.49	3.17	0.81	0.133	0.03	0.74	0.19
7258	386.	0.019	4.92	2.35	0.61	23.03	5.97	3.26	0.84	0.106	0.03	0.73	0.19
7259	350.	0.014	4.00	2.08	0.59	21.21	6.06	3.06	0.87	0.086	0.02	0.69	0.20
7260 NP	---	0.018	----	2.04	----	13.01	----	2.57	----	0.082	----	0.58	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Value was not recorded.
c. Rat 7253 was moribund sacrificed on day 62 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE ES1 (PAGE 4): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 2						0.3 MG/KG/DAY	
7231	396.	0.164	0.04	0.022	5.56	1.28	0.32
7232	387.	0.159	0.04	0.020	5.17	1.38	0.36
7233	388.	0.135	0.03	0.022	5.67	1.29	0.33
7234	353.	0.152	0.04	0.025	7.08	1.47	0.42
7235	356.	0.122	0.03	0.021b	5.90	1.45	0.41
7236	364.	0.090	0.02	0.021b	5.77	1.42	0.39
7237	368.	0.112	0.03	0.034	9.24	1.41	0.38
7238	350.	0.110	0.03	0.028	8.00	1.22	0.35
7239	c	0.143	----	0.023	----	1.32	----
7240	361.	0.171	0.05	0.024b	6.65	1.31	0.36
7241	356.	0.104	0.03	0.026	7.30	1.31	0.37
7242	347.	0.152	0.04	0.032b	9.22	1.48	0.43
7243 NP	---	0.112	----	0.023	----	1.13	----
7244	353.	0.129	0.04	0.020	5.66	1.45	0.41
7245	376.	0.121	0.03	0.023	6.12	1.54	0.41
7246	340.	0.087	0.02	0.024	7.06	1.32	0.39
7247	360.	0.088	0.02	0.023	6.39	1.29	0.36
7248	349.	0.176	0.05	0.026b	7.45	1.39	0.40
7249	342.	0.128	0.04	0.030	8.77	1.36	0.40
7250	389.	0.111	0.03	0.035	9.00	1.49	0.38
7251	298.	0.082	0.03	0.026	8.72	1.24	0.42
7252	360.	0.148	0.04	0.028	7.78	1.19	0.33
7253d	---	0.131	----	0.016	----	1.31	----
7254	340.	0.098	0.03	0.020	5.88	1.30	0.38
7255	335.	0.114	0.03	0.022	6.57	1.36	0.40
7256	388.	0.136	0.04	0.030b	7.73	1.47	0.38
7257	393.	0.111	0.03	0.028	7.12	1.53	0.39
7258	386.	0.110	0.03	0.026	6.74	1.52	0.39
7259	350.	0.151	0.04	0.022	6.28	1.35	0.38
7260 NP	---	0.110	----	0.033	----	1.07	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Value was not recorded.
d. Rat 7253 was moribund sacrificed on day 62 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E51 (PAGE 5): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
7261 NP	---	0.017	----	2.25	----	10.76	----	2.43	----	0.054	----	0.46	----
7262	352.	0.014	3.98	2.21	0.63	18.79	5.34	3.30	0.94	0.111	0.03	0.71	0.20
7263	344.	0.024	6.98	2.25	0.65	20.33	5.91	3.15	0.92	0.098	0.03	0.80	0.23
7264	364.	0.014	3.85	2.22	0.61	20.11	5.52	3.76	1.03	0.107	0.03	0.70	0.19
7265	386.	0.008	2.07	2.20	0.57	22.09	5.72	3.97	1.03	0.112	0.03	1.05	0.27
7266	352.	0.017	4.83	2.19	0.62	21.51	6.11	3.41	0.97	0.108	0.03	0.65	0.18
7267	372.	0.015	4.03	2.23	0.60	18.72	5.03	3.18	0.85	0.101	0.03	0.74	0.20
7268	348.	0.023b	6.61	2.11b	0.61	19.04	5.47	3.32	0.95	0.121	0.03	0.74	0.21
7269	368.	0.016	4.35	2.21	0.60	17.70	4.81	3.34	0.91	0.106	0.03	0.87	0.24
7270	382.	0.018	4.71	2.17	0.57	19.89	5.21	3.13	0.82	0.106	0.03	0.69	0.18
7271	389.	0.017	4.37	2.28	0.59	19.33	4.97	3.18	0.82	0.117	0.03	0.88	0.23
7272	402.	0.014	3.48	2.41	0.60	20.70	5.15	3.80	0.94	0.125	0.03	0.61	0.15
7273	368.	0.022	5.98	2.12	0.58	19.49	5.30	3.24	0.88	0.124	0.03	0.83	0.22
7274	405.	0.013	3.21	2.32	0.57	19.47	4.81	3.67	0.91	0.122	0.03	0.80	0.20
7275	346.	0.012	3.47	2.17	0.63	19.78	5.72	3.33	0.96	0.103	0.03	0.71	0.20
7276	334.	0.010	2.99	2.34	0.70	17.70	5.30	3.40	1.02	0.132	0.04	0.83	0.25
7277	358.	0.014	3.91	2.24	0.62	19.70	5.50	3.50	0.98	0.100	0.03	0.83	0.23
7278	377.	0.015	3.98	2.24	0.59	19.91	5.28	3.14	0.83	0.133	0.04	0.74	0.20
7279	371.	0.014	3.77	2.21	0.60	20.30	5.47	3.41	0.92	0.132	0.04	0.75	0.20
7280	341.	0.015	4.40	2.03	0.60	16.31	4.78	2.97	0.87	0.098	0.03	0.83	0.24
7281	329.	0.017	5.17	2.11	0.64	17.85	5.42	2.89	0.88	0.109	0.03	0.58	0.18
7282	407.	0.013	3.19	2.31	0.57	21.07	5.18	3.80	0.93	0.112	0.03	0.76	0.19
7283	366.	0.018	4.92	2.19	0.60	21.64	5.91	3.44	0.94	0.103	0.03	1.04	0.28
7284	349.	0.016	4.58	2.41	0.69	17.88	5.12	3.34	0.96	0.102	0.03	0.76	0.22
7285	373.	0.019	5.09	2.21	0.59	19.60	5.25	3.24	0.87	0.095	0.02	0.79	0.21
7286	376.	0.021	5.58	2.31	0.61	20.20	5.37	3.28	0.87	0.119	0.03	0.69	0.18
7287	402.	0.012	2.98	2.20	0.55	22.05	5.48	3.59	0.89	0.108	0.03	0.75	0.19
7288	363.	0.016	4.41	2.24	0.62	20.55	5.66	3.50	0.96	0.121	0.03	0.70	0.19
7289	381.	0.015	3.94	2.25	0.59	19.10	5.01	3.33	0.87	0.111	0.03	0.81	0.21
7290 NP	---	0.019	----	2.15	----	14.25	----	3.44	----	0.112	----	0.72	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E51 (PAGE 6): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 3						3.0 MG/KG/DAY	
7261 NP	---	0.056	----	0.045	----	0.95	----
7262	352.	0.106	0.03	0.028	7.95	1.33	0.38
7263	344.	0.087	0.02	0.028	8.14	1.43	0.42
7264	364.	0.149	0.04	0.029	7.97	1.36	0.37
7265	386.	0.184	0.05	0.030	7.77	1.50	0.39
7266	352.	0.114	0.03	0.028	7.95	1.35	0.38
7267	372.	0.131	0.04	0.037	9.95	1.50	0.40
7268	348.	0.118	0.03	0.030	8.62	1.19	0.34
7269	368.	0.163	0.04	0.019	5.16	1.37	0.37
7270	382.	0.170	0.04	0.023	6.02	1.54	0.40
7271	389.	0.107	0.03	0.032	8.23	1.37	0.35
7272	402.	0.130	0.03	0.038	9.45	1.50	0.37
7273	368.	0.188	0.05	0.028	7.61	1.46	0.40
7274	405.	0.140	0.03	0.029	7.16	1.60	0.40
7275	346.	0.132	0.04	0.020	5.78	1.31	0.38
7276	334.	0.105	0.03	0.029	8.68	1.46	0.44
7277	358.	0.105	0.03	0.025	6.98	1.45	0.40
7278	377.	0.090	0.02	0.026	6.90	1.57	0.42
7279	371.	0.109	0.03	0.024	6.47	1.33	0.36
7280	341.	0.131	0.04	0.023	6.74	1.17	0.34
7281	329.	0.092	0.03	0.028	8.51	1.15	0.35
7282	407.	0.124	0.03	0.028b	6.88	1.47	0.36
7283	366.	0.109	0.03	0.027	7.38	1.33	0.36
7284	349.	0.146	0.04	c	----	1.23	0.35
7285	373.	0.109	0.03	0.031b	8.31	1.45	0.39
7286	376.	0.143	0.04	0.030	7.98	1.31	0.35
7287	402.	0.197	0.05	0.032	7.96	1.36	0.34
7288	363.	0.122	0.03	0.037	10.19	1.33	0.37
7289	381.	0.136	0.04	0.028	7.35	1.40	0.37
7290 NP	---	0.201	----	0.038	----	1.33	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.
a. Value was multiplied by 1000.
b. Damaged during processing (weight not affected).
c. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E51 (PAGE 7): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % TBW a	BRAIN ABS. WT.	BRAIN REL. % TBW	LIVER ABS. WT.	LIVER REL. % TBW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % TBW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % TBW	SPLEEN ABS. WT.	SPLEEN REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY							
7291	375.	0.019	5.07	2.10	0.56	22.44	5.98	4.06	1.08	0.121	0.03	0.83	0.22
7292	350.	0.020	5.71	2.29	0.65	18.73	5.35	3.51	1.00	0.110	0.03	0.75	0.21
7293b	---	0.019	----	2.20	----	15.86	----	2.93	----	0.073	----	0.66	----
7294	386.	0.013	3.37	2.20	0.57	21.03	5.45	3.31	0.86	0.109	0.03	0.68	0.18
7295c	---	0.009	----	2.04	----	16.47	----	2.26	----	0.135	----	1.45	----
7296	370.	0.018	4.86	2.22	0.60	20.08	5.43	2.99	0.81	0.118	0.03	0.95	0.26
7297	353.	0.012	3.40	2.30d	0.65	18.03	5.11	2.82	0.80	0.101	0.03	0.96	0.27
7298	342.	0.017	4.97	2.12	0.62	18.49	5.41	3.28	0.96	0.114	0.03	0.78	0.23
7299	356.	0.016	4.49	2.27	0.64	18.72	5.26	3.15	0.88	0.093	0.03	0.65	0.18
7300	392.	0.024	6.12	2.30	0.59	18.00	4.59	3.31	0.84	0.116	0.03	0.72	0.18
7301	347.	0.013	3.75	1.93	0.56	19.53	5.63	2.97	0.86	0.096	0.03	0.65	0.19
7302	399.	0.011	2.76	2.25	0.56	18.31	4.59	3.36	0.84	0.116	0.03	0.91	0.23
7303	399.	0.013	3.26	2.20	0.55	19.79	4.96	3.52	0.88	0.126	0.03	0.83	0.21
7304	374.	0.023	6.15	2.20	0.59	20.64	5.52	3.97	1.06	0.126	0.03	0.80	0.21
7305 NP	---	0.015	----	2.18	----	14.18	----	3.00	----	0.085	----	0.60	----
7306	373.	0.015	4.02	2.11	0.56	19.70	5.28	3.16	0.85	0.105	0.03	0.65	0.17
7307 NP	---	0.008	----	1.50	----	8.57	----	2.01	----	0.092	----	0.74	----
7308	364.	0.017	4.67	2.25	0.62	19.03	5.23	2.77	0.76	0.076	0.02	0.81	0.22
7309	357.	0.015	4.20	1.84	0.52	18.03	5.05	3.16	0.88	0.092	0.02	0.73	0.20
7310	364.	0.021	5.77	2.22	0.61	19.71	5.41	3.43	0.94	0.088	0.02	0.77	0.21
7311	386.	0.011	2.85	2.21	0.57	20.93	5.42	3.03	0.78	0.107	0.03	0.82	0.21
7312	310.	0.016	5.16	2.21	0.71	15.17	4.89	3.08	0.99	0.086	0.03	0.73	0.24
7313	352.	0.014	3.98	2.16	0.61	16.01	4.55	3.09	0.88	0.082	0.02	0.78	0.22
7314	342.	0.018	5.26	2.23	0.65	15.37	4.49	2.79	0.82	0.091	0.03	0.78	0.23
7315	366.	0.012	3.28	2.20	0.60	19.30	5.27	3.10	0.85	0.096	0.03	0.67	0.18
7316	394.	0.016	4.06	2.36	0.60	18.74	4.76	3.41	0.86	0.084	0.02	0.67	0.17
7317	368.	0.020	5.43	2.31	0.63	20.80	5.65	3.28	0.89	0.097	0.03	0.84	0.23
7318	371.	0.018	4.85	2.18	0.59	20.52	5.53	3.41	0.92	0.120	0.03	0.68	0.18
7319 NP	---	0.020	----	2.18	----	14.38	----	3.07	----	0.101	----	0.67	----
7320	389.	0.016	4.11	2.19	0.56	20.76	5.34	3.48	0.89	0.104	0.03	0.71	0.18

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
c. Dam 7295 was found dead on day 22 of gestation; values excluded from group averages and statistical analyses.
d. Damaged during processing (weight not affected).

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PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E51 (PAGE 8): TERMINAL BODY WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO TERMINAL BODY WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	TERMINAL BODY WEIGHT	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % TBW	THYROID ABS. WT.	THYROID REL. % TBW a	HEART ABS. WT.	HEART REL. % TBW
DOSAGE GROUP 4						30.0 MG/KG/DAY	
7291	375.	0.104	0.03	0.032	8.53	1.36	0.36
7292	350.	0.129	0.04	0.037	10.57	1.39	0.40
7293b	---	0.135	----	0.054	----	1.21	----
7294	386.	0.181	0.05	0.029	7.51	1.54	0.40
7295c	---	0.122	----	0.051	----	1.52	----
7296	370.	0.126	0.03	0.038	10.27	1.53	0.41
7297	353.	0.119	0.03	0.040	11.33	1.50	0.42
7298	342.	0.105	0.03	0.026	7.60	1.06	0.31
7299	356.	0.166	0.05	0.029d	8.15	1.43	0.40
7300	392.	0.107	0.03	0.033	8.42	1.26	0.32
7301	347.	0.099	0.03	0.028	8.07	1.24	0.36
7302	399.	0.172	0.04	0.048	12.03	1.56	0.39
7303	399.	0.156	0.04	0.044	11.03	1.49	0.37
7304	374.	0.101	0.03	0.027	7.22	1.47	0.39
7305 NP	---	0.106	----	0.046	----	1.11	----
7306	373.	0.153	0.04	0.035	9.38	1.38	0.37
7307 NP	---	0.063	----	0.059	----	0.68	----
7308	364.	0.090	0.02	0.026	7.14	1.41	0.39
7309	357.	0.152	0.04	0.030	8.40	1.39	0.39
7310	364.	0.162	0.04	0.032d	8.79	1.34	0.37
7311	386.	0.092	0.02	0.032	8.29	1.40	0.36
7312	310.	0.140	0.04	0.032	10.32	1.32	0.42
7313	352.	0.144	0.04	0.036	10.23	1.36	0.39
7314	342.	0.123	0.04	0.030	8.77	1.18	0.34
7315	366.	0.139	0.04	0.034	9.29	1.37	0.37
7316	394.	0.166	0.04	0.036	9.14	1.47	0.37
7317	368.	0.109	0.03	0.031	8.42	1.47	0.40
7318	371.	0.162	0.04	0.028	7.55	1.30	0.35
7319 NP	---	0.115	----	0.047	----	1.31	----
7320	389.	0.088	0.02	0.035	9.00	1.46	0.38

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % TBW = (ORGAN WEIGHT/TERMINAL BODY WEIGHT) x 100.

a. Value was multiplied by 1000.
b. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
c. Dam 7295 was found dead on day 22 of gestation; values excluded from group averages and statistical analyses.
d. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 1): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % BRW
DOSAGE GROUP 1						0 (CARRIER) MG/KG/DAY							
7201 NP	2.03	0.017	----	10.67	------	2.40	------	0.092	----	0.69	-----	0.114	----
7202	2.11	0.016	0.76	21.59	1023.22	3.26	154.50	0.105	4.98	0.72	34.12	0.106	5.02
7203 NP	2.13	0.015	----	12.86	------	2.56	------	0.083	----	0.73	-----	0.099	----
7204	2.28	0.013	0.57	18.63	817.10	3.13	137.28	0.088	3.86	0.54	23.68	0.102	4.47
7205	2.08	0.012	0.58	17.90	860.58	3.28	157.69	0.114	5.48	0.69	33.17	0.138	6.63
7206 NP	2.18	0.014	----	12.67	------	2.39	------	0.087	----	0.74	-----	0.125	----
7207 NP	2.07	0.021	----	13.35	------	2.99	------	0.103	----	0.81	-----	0.169	----
7208	2.27	0.012	0.53	18.58	818.50	3.08	135.68	0.109	4.80	0.73	32.16	0.115	5.07
7209 NP	2.17	0.018	----	11.78	------	2.48	------	0.068	----	0.61	-----	0.106	----
7210	2.21	0.020	0.90	23.50	1063.35	3.82	172.85	0.120	5.43	1.04	47.06	0.110	4.98
7211	2.23	0.014	0.63	22.59	1013.00	3.22	144.39	0.118	5.29	0.57	25.56	0.126	5.65
7212a	2.11	0.016	----	9.37	------	2.22	------	0.080	----	0.68	-----	0.110	----
7213	2.17	0.016	0.74	21.93	1010.60	3.33	153.46	0.105	4.84	0.73	33.64	0.138	6.36
7214	2.16	0.015	0.69	21.70	1004.63	3.34	154.63	0.111	5.14	0.74	34.26	0.175	8.10
7215	1.96	0.020	1.02	20.23	1032.14	3.33	169.90	0.115	5.87	0.84	42.86	0.120	6.12
7216	2.17	0.016	0.74	18.88	870.05	3.05	140.55	0.110	5.07	0.61	28.11	0.054	2.49
7217	2.11	0.016	0.76	17.58	833.18	3.35	158.77	0.118	5.59	0.84	39.81	0.114	5.40
7218	1.99	0.010	0.50	18.35	922.11	2.62	131.66	0.112	5.63	0.81	40.70	0.116	5.83
7219	2.40	0.018	0.75	22.00	916.67	3.85	160.42	0.149	6.21	0.68	28.33	0.119	4.96
7220 NP	2.13	0.024	----	13.17	------	2.82	------	0.076	----	0.60	-----	0.108	----
7221 NP	2.14	0.020	----	14.30	------	2.58	------	0.095	----	0.65	-----	0.130	----
7222 NP	2.16	0.018	----	12.55	------	2.46	------	0.097	----	0.64	-----	0.130	----
7223	2.27	0.015	0.66	16.03	706.17	3.06	134.80	0.088	3.88	0.77	33.92	0.133	5.86
7224	2.17	0.016	0.74	16.65	767.28	3.27	150.69	0.102	4.70	0.87	40.09	0.128	5.90
7225	2.28	0.018	0.79	18.98	832.46	3.38	148.24	0.115	5.04	0.70	30.70	0.151	6.62
7226	2.32	0.020	0.86	20.01	862.50	3.64	156.90	0.122	5.26	0.88	37.93	0.125	5.39
7227	2.19	0.017	0.78	21.71	991.32	3.51	160.27	0.099	4.52	0.65	29.68	0.171	7.81
7228	2.32	0.017	0.73	19.85	855.60	3.32	143.10	0.125	5.39	0.58	25.00	0.166	7.16
7229	2.22	0.016	0.72	21.67	976.13	3.34	150.45	0.120	5.40	0.77	34.68	0.116	5.22
7230 NP	2.03	0.011	----	11.37	------	2.25	------	0.078	----	0.49	-----	0.121	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 2): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 1					0 (CARRIER) MG/KG/DAY
7201 NP	2.03	0.020	----	1.01	-----
7202	2.11	0.025	1.18	1.56	73.93
7203 NP	2.13	0.025	----	1.06	-----
7204	2.28	0.023	1.01	1.28	56.14
7205	2.08	0.021	1.01	1.31	62.98
7206 NP	2.18	0.021	----	1.02	-----
7207 NP	2.07	0.028	----	1.14	-----
7208	2.27	0.026	1.14	1.18	51.98
7209 NP	2.17	0.017	----	0.97	-----
7210	2.21	0.020	0.90	1.55	70.14
7211	2.23	0.018	0.81	1.21	54.26
7212a	2.11	0.019	----	0.98	-----
7213	2.17	0.019	0.88	1.40	64.52
7214	2.16	0.028	1.30	1.25	57.87
7215	1.96	0.020	1.02	1.11	56.63
7216	2.17	0.022	1.01	1.38	63.59
7217	2.11	0.024b	1.14	1.34	63.51
7218	1.99	0.022	1.10	1.47	73.87
7219	2.40	0.023	0.96	1.38	57.50
7220 NP	2.13	0.021	----	1.22	-----
7221 NP	2.14	0.024	----	1.15	-----
7222 NP	2.16	0.025	----	1.31	-----
7223	2.27	0.027	1.19	1.29	56.83
7224	2.17	0.020	0.92	1.33	61.29
7225	2.28	0.021	0.92	1.49	65.35
7226	2.32	0.020	0.86	1.56	67.24
7227	2.19	0.024	1.10	1.48	67.58
7228	2.32	0.019	0.82	1.35	58.19
7229	2.22	0.021	0.94	1.43	64.41
7230 NP	2.03	0.020	----	1.05	-----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 3): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % BRW
DOSAGE GROUP 2						0.3 MG/KG/DAY							
7231	2.16	0.018	0.83	22.14	1025.00	3.44	159.26	0.120	5.56	0.94	43.52	0.164	7.59
7232	2.23	0.014	0.63	20.99	941.26	3.36	150.67	0.108	4.84	0.74	33.18	0.159	7.13
7233	2.18	0.018	0.82	21.70	995.41	3.79	173.85	0.117	5.37	0.78	35.78	0.135	6.19
7234	2.11	0.017	0.80	18.70	886.26	3.28	155.45	0.106	5.02	0.98	46.44	0.152	7.20
7235	2.46	0.013	0.53	17.80	723.58	3.35	136.18	0.108	4.39	0.90	36.58	0.122	4.96
7236	2.15	0.015	0.70	20.16	937.67	3.35	155.81	0.113	5.26	0.71	33.02	0.090	4.19
7237	2.20	0.017	0.77	20.51	932.27	3.91	177.73	0.116	5.27	0.49	22.27	0.112	5.09
7238	2.10	0.015	0.71	20.78	989.52	3.36	160.00	0.099	4.71	0.63	30.00	0.110	5.24
7239	2.22	0.013	0.58	17.03	767.12	3.08	138.74	0.096	4.32	0.76	34.23	0.143	6.44
7240	2.12	0.020	0.94	21.47	1012.74	3.41	160.85	0.081	3.82	0.58	27.36	0.171	8.07
7241	2.31	0.015	0.65	23.24	1006.06	3.73	161.47	0.111	4.80	0.75	32.47	0.104	4.50
7242	2.24	0.013	0.58	18.91	844.20	3.22	143.75	0.095	4.24	0.69	30.80	0.152	6.78
7243 NP	2.05	0.019	----	11.59	------	2.63	------	0.082	----	0.63	-----	0.112	----
7244	2.21	0.019	0.86	21.20	959.28	3.34	151.13	0.110	4.98	0.72	32.58	0.129	5.84
7245	2.42	0.025	1.03	20.81	859.92	3.66	151.24	0.129	5.33	0.97	40.08	0.121	5.00
7246	2.20	0.016	0.73	18.80	854.54	3.15	143.18	0.103	4.68	0.73	33.18	0.087	3.95
7247	2.28	0.016	0.70	21.20	929.82	2.92	128.07	0.106	4.65	0.79	34.65	0.088	3.86
7248	2.29	0.011	0.48	21.08	920.52	2.77	120.96	0.123	5.37	0.89	38.86	0.176	7.68
7249	2.20	0.015	0.68	17.44	792.73	3.23	146.82	0.094	4.27	0.75	34.09	0.128	5.82
7250	2.32	0.018	0.78	20.67	890.95	3.32	143.10	0.098	4.22	0.73	31.46	0.111	4.78
7251	2.35	0.016	0.68	16.81	715.32	3.19	135.74	0.090	3.83	0.53	22.55	0.082	3.49
7252	2.19	0.012	0.55	19.74	901.37	3.27	149.32	0.127	5.80	0.85	38.81	0.148	6.76
7253a	1.83	0.013	----	12.36	------	2.63	------	0.120	----	5.11	-----	0.131	----
7254	2.09	0.017	0.81	20.36	974.16	3.36	160.76	0.116	5.55	0.91	43.54	0.098	4.69
7255	2.19	0.017	0.78	18.43	841.55	3.04	138.81	0.087	3.97	0.67	30.59	0.114	5.20
7256	2.32	0.019	0.82	21.49	926.29	3.55	153.02	0.103	4.44	0.84	36.21	0.136	5.86
7257	2.35	0.019	0.81	21.56	917.45	3.17	134.89	0.133	5.66	0.74	31.49	0.111	4.72
7258	2.35	0.019	0.81	23.03	980.00	3.26	138.72	0.106	4.51	0.73	31.06	0.110	4.68
7259	2.08	0.014	0.67	21.21	1019.71	3.06	147.12	0.086	4.13	0.69	33.17	0.151	7.26
7260 NP	2.04	0.018	----	13.01	------	2.57	------	0.082	----	0.58	-----	0.110	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Rat 7253 was moribund sacrificed on day 62 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 4): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 2					0.3 MG/KG/DAY
7231	2.16	0.022	1.02	1.28	59.26
7232	2.23	0.020	0.90	1.38	61.88
7233	2.18	0.022	1.01	1.29	59.17
7234	2.11	0.025	1.18	1.47	69.67
7235	2.46	0.021a	0.85	1.45	58.94
7236	2.15	0.021a	0.98	1.42	66.05
7237	2.20	0.034	1.54	1.41	64.09
7238	2.10	0.028	1.33	1.22	58.10
7239	2.22	0.023	1.04	1.32	59.46
7240	2.12	0.024a	1.13	1.31	61.79
7241	2.31	0.026	1.12	1.31	56.71
7242	2.24	0.032a	1.43	1.48	66.07
7243 NP	2.05	0.023	----	1.13	-----
7244	2.21	0.020	0.90	1.45	65.61
7245	2.42	0.023	0.95	1.54	63.64
7246	2.20	0.024	1.09	1.32	60.00
7247	2.28	0.023	1.01	1.29	56.58
7248	2.29	0.026a	1.14	1.39	60.70
7249	2.20	0.030	1.36	1.36	61.82
7250	2.32	0.035	1.51	1.49	64.22
7251	2.35	0.026	1.11	1.24	52.76
7252	2.19	0.028	1.28	1.19	54.34
7253b	1.83	0.016	----	1.31	-----
7254	2.09	0.020	0.96	1.30	62.20
7255	2.19	0.022	1.00	1.36	62.10
7256	2.32	0.030a	1.29	1.47	63.36
7257	2.35	0.028	1.19	1.53	65.11
7258	2.35	0.026	1.11	1.52	64.68
7259	2.08	0.022	1.06	1.35	64.90
7260 NP	2.04	0.033	----	1.07	-----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).
b. Rat 7253 was moribund sacrificed on day 62 postweaning; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 5): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % BRW
DOSAGE GROUP 3						3.0 MG/KG/DAY							
7261 NP	2.25	0.017	----	10.76	------	2.43	------	0.054	----	0.46	-----	0.056	----
7262	2.21	0.014	0.63	18.79	850.23	3.30	149.32	0.111	5.02	0.71	32.13	0.106	4.80
7263	2.25	0.024	1.07	20.33	903.56	3.15	140.00	0.098	4.36	0.80	35.56	0.087	3.87
7264	2.22	0.014	0.63	20.11	905.86	3.76	169.37	0.107	4.82	0.70	31.53	0.149	6.71
7265	2.20	0.008	0.36	22.09	1004.09	3.97	180.45	0.112	5.09	1.05	47.73	0.184	8.36
7266	2.19	0.017	0.78	21.51	982.19	3.41	155.71	0.108	4.93	0.65	29.68	0.114	5.20
7267	2.23	0.015	0.67	18.72	839.46	3.18	142.60	0.101	4.53	0.74	33.18	0.131	5.87
7268	2.11a	0.023a	1.09	19.04	902.37	3.32	157.34	0.121	5.73	0.74	35.07	0.118	5.59
7269	2.21	0.016	0.72	17.70	800.90	3.34	151.13	0.106	4.80	0.87	39.37	0.163	7.38
7270	2.17	0.018	0.83	19.89	916.59	3.13	144.24	0.106	4.88	0.69	31.80	0.170	7.83
7271	2.28	0.017	0.74	19.33	847.81	3.18	139.47	0.117	5.13	0.88	38.60	0.107	4.69
7272	2.41	0.014	0.58	20.70	858.92	3.80	157.68	0.125	5.19	0.61	25.31	0.130	5.39
7273	2.12	0.022	1.04	19.49	919.34	3.24	152.83	0.124	5.85	0.83	39.15	0.188	8.87
7274	2.32	0.013	0.56	19.47	839.22	3.67	158.19	0.122	5.26	0.80	34.48	0.140	6.03
7275	2.17	0.012	0.55	19.78	911.52	3.33	153.46	0.103	4.75	0.71	32.72	0.132	6.08
7276	2.34	0.010	0.43	17.70	756.41	3.40	145.30	0.132	5.64	0.83	35.47	0.105	4.49
7277	2.24	0.014	0.62	19.70	879.46	3.50	156.25	0.100	4.46	0.83	37.05	0.105	4.69
7278	2.24	0.015	0.67	19.91	888.84	3.14	140.18	0.133	5.94	0.74	33.04	0.090	4.02
7279	2.21	0.014	0.63	20.30	918.55	3.41	154.30	0.132	5.97	0.75	33.94	0.109	4.93
7280	2.03	0.015	0.74	16.31	803.45	2.97	146.30	0.098	4.83	0.83	40.89	0.131	6.45
7281	2.11	0.017	0.80	17.85	845.97	2.89	136.97	0.109	5.16	0.58	27.49	0.092	4.36
7282	2.31	0.013	0.56	21.07	912.12	3.80	164.50	0.112	4.85	0.76	32.90	0.124	5.37
7283	2.19	0.018	0.82	21.64	988.13	3.44	157.08	0.103	4.70	1.04	47.49	0.109	4.98
7284	2.41	0.016	0.66	17.88	741.91	3.34	138.59	0.102	4.23	0.76	31.54	0.146	6.06
7285	2.21	0.019	0.86	19.60	886.88	3.24	146.61	0.095	4.30	0.79	35.75	0.109	4.93
7286	2.31	0.021	0.91	20.20	874.46	3.28	141.99	0.119	5.15	0.69	29.87	0.143	6.19
7287	2.20	0.012	0.54	22.05	1002.27	3.59	163.18	0.108	4.91	0.75	34.09	0.197	8.95
7288	2.24	0.016	0.71	20.55	917.41	3.50	156.25	0.121	5.40	0.70	31.25	0.122	5.45
7289	2.25	0.015	0.67	19.10	848.89	3.33	148.00	0.111	4.93	0.81	36.00	0.136	6.04
7290 NP	2.15	0.019	----	14.25	------	3.44	------	0.112	----	0.72	-----	0.201	----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 6): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 3					3.0 MG/KG/DAY
7261 NP	2.25	0.045	----	0.95	-----
7262	2.21	0.028	1.27	1.33	60.18
7263	2.25	0.028	1.24	1.43	63.56
7264	2.22	0.029	1.31	1.36	61.26
7265	2.20	0.030	1.36	1.50	68.18
7266	2.19	0.028	1.28	1.35	61.64
7267	2.23	0.037	1.66	1.50	67.26
7268	2.11	0.030	1.42	1.19	56.40
7269	2.21	0.019	0.86	1.37	61.99
7270	2.17	0.023	1.06	1.54	70.97
7271	2.28	0.032	1.40	1.37	60.09
7272	2.41	0.038	1.58	1.50	62.24
7273	2.12	0.028	1.32	1.46	68.87
7274	2.32	0.029	1.25	1.60	68.96
7275	2.17	0.020	0.92	1.31	60.37
7276	2.34	0.029	1.24	1.46	62.39
7277	2.24	0.025	1.12	1.45	64.73
7278	2.24	0.026	1.16	1.57	70.09
7279	2.21	0.024	1.08	1.33	60.18
7280	2.03	0.023	1.13	1.17	57.64
7281	2.11	0.028	1.33	1.15	54.50
7282	2.31	0.028a	1.21	1.47	63.64
7283	2.19	0.027	1.23	1.33	60.73
7284	2.41	b	----	1.23	51.04
7285	2.21	0.031a	1.40	1.45	65.61
7286	2.31	0.030	1.30	1.31	56.71
7287	2.20	0.032	1.45	1.36	61.82
7288	2.24	0.037	1.65	1.33	59.37
7289	2.25	0.028	1.24	1.40	62.22
7290 NP	2.15	0.038	----	1.33	-----

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.
a. Damaged during processing (weight not affected).
b. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 7): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	PITUITARY ABS. WT.	PITUITARY REL. % BRW	LIVER ABS. WT.	LIVER REL. % BRW	KIDNEY PAIRED ABS. WT.	KIDNEY PAIRED REL. % BRW	ADRENAL PAIRED ABS. WT.	ADRENAL PAIRED REL. % BRW	SPLEEN ABS. WT.	SPLEEN REL. % BRW	OVARY PAIRED ABS. WT.	OVARY PAIRED REL. % BRW
DOSAGE GROUP 4					30.0 MG/KG/DAY								
7291	2.10	0.019	0.90	22.44	1068.57	4.06	193.33	0.121	5.76	0.83	39.52	0.104	4.95
7292	2.29	0.020	0.87	18.73	817.90	3.51	153.28	0.110	4.80	0.75	32.75	0.129	5.63
7293a	2.20	0.019	----	15.86	------	2.93	------	0.073	----	0.66	-----	0.135	----
7294	2.20	0.013	0.59	21.03	955.91	3.31	150.45	0.109	4.95	0.68	30.91	0.181	8.23
7295b	2.04	0.009	----	16.47	------	2.26	------	0.135	----	1.45	-----	0.122	----
7296	2.22	0.018	0.81	20.08	904.50	2.99	134.68	0.118	5.32	0.95	42.79	0.126	5.68
7297	2.30	0.012	0.52	18.03	783.91	2.82	122.61	0.101	4.39	0.96	41.74	0.119	5.17
7298	2.12	0.017	0.80	18.49	872.17	3.28	154.72	0.114	5.38	0.78	36.79	0.105	4.95
7299	2.27	0.016	0.70	18.72	824.67	3.15	138.77	0.093	4.10	0.65	28.63	0.166	7.31
7300	2.30	0.024	1.04	18.00	782.61	3.31	143.91	0.116	5.04	0.72	31.30	0.107	4.65
7301	1.93	0.013	0.67	19.53	1011.92	2.97	153.89	0.096	4.97	0.65	33.68	0.099	5.13
7302	2.25	0.011	0.49	18.31	813.78	3.36	149.33	0.116	5.16	0.91	40.44	0.172	7.64
7303	2.20	0.013	0.59	19.79	899.54	3.52	160.00	0.126	5.73	0.83	37.73	0.156	7.09
7304	2.20	0.023	1.04	20.64	938.18	3.97	180.45	0.126	5.73	0.80	36.36	0.101	4.59
7305 NP	2.18	0.015	----	14.18	------	3.00	------	0.085	----	0.60	-----	0.106	----
7306	2.11	0.015	0.71	19.70	933.65	3.16	149.76	0.105	4.98	0.65	30.80	0.153	7.25
7307 NP	1.50	0.008	----	8.57	------	2.01	------	0.092	----	0.74	-----	0.063	----
7308	2.25	0.017	0.76	19.03	845.78	2.77	123.11	0.076	3.38	0.81	36.00	0.090	4.00
7309	1.84	0.015	0.82	18.03	979.89	3.16	171.74	0.092	5.00	0.73	39.67	0.152	8.26
7310	2.22	0.021	0.94	19.71	887.84	3.43	154.50	0.088	3.96	0.77	34.68	0.162	7.30
7311	2.21	0.011	0.50	20.93	947.06	3.03	137.10	0.107	4.84	0.82	37.10	0.092	4.16
7312	2.21	0.016	0.72	15.17	686.42	3.08	139.37	0.086	3.89	0.73	33.03	0.140	6.33
7313	2.16	0.014	0.65	16.01	741.20	3.09	143.06	0.082	3.80	0.78	36.11	0.144	6.67
7314	2.23	0.018	0.81	15.37	689.24	2.79	125.11	0.091	4.08	0.78	34.98	0.123	5.52
7315	2.20	0.012	0.54	19.30	877.27	3.10	140.91	0.096	4.36	0.67	30.45	0.139	6.32
7316	2.36	0.016	0.68	18.74	794.07	3.41	144.49	0.084	3.56	0.67	28.39	0.166	7.03
7317	2.31	0.020	0.86	20.80	900.43	3.28	141.99	0.097	4.20	0.84	36.36	0.109	4.72
7318	2.18	0.018	0.82	20.52	941.28	3.41	156.42	0.120	5.50	0.68	31.19	0.162	7.43
7319 NP	2.18	0.020	----	14.38	------	3.07	------	0.101	----	0.67	-----	0.115	----
7320	2.19	0.016	0.73	20.76	947.94	3.48	158.90	0.104	4.75	0.71	32.42	0.088	4.02

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.

b. Dam 7295 was found dead on day 22 of gestation; values excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E52 (PAGE 8): BRAIN WEIGHTS AND ORGAN WEIGHTS AND RATIOS (%) OF ORGAN WEIGHT TO BRAIN WEIGHT - INDIVIDUAL DATA - F1 GENERATION FEMALE RATS

RAT NUMBER	BRAIN WEIGHT	THYROID ABS. WT.	THYROID REL. % BRW	HEART ABS. WT.	HEART REL. % BRW
DOSAGE GROUP 4				30.0 MG/KG/DAY	
7291	2.10	0.032	1.52	1.36	64.76
7292	2.29	0.037	1.62	1.39	60.70
7293a	2.20	0.054	----	1.21	-----
7294	2.20	0.029	1.32	1.54	70.00
7295b	2.04	0.051	----	1.52	-----
7296	2.22	0.038	1.71	1.53	68.92
7297	2.30	0.040	1.74	1.50	65.22
7298	2.12	0.026	1.23	1.06	50.00
7299	2.27	0.029c	1.28	1.43	63.00
7300	2.30	0.033	1.43	1.26	54.78
7301	1.93	0.028	1.45	1.24	64.25
7302	2.25	0.048	2.13	1.56	69.33
7303	2.20	0.044	2.00	1.49	67.73
7304	2.20	0.027	1.23	1.47	66.82
7305 NP	2.18	0.046	----	1.11	-----
7306	2.11	0.035	1.66	1.38	65.40
7307 NP	1.50	0.059	----	0.68	-----
7308	2.25	0.026	1.16	1.41	62.67
7309	1.84	0.030	1.63	1.39	75.54
7310	2.22	0.032c	1.44	1.34	60.36
7311	2.21	0.032	1.45	1.40	63.35
7312	2.21	0.032	1.45	1.32	59.73
7313	2.16	0.036	1.67	1.36	62.96
7314	2.23	0.030	1.34	1.18	52.91
7315	2.20	0.034	1.54	1.37	62.27
7316	2.36	0.036	1.52	1.47	62.29
7317	2.31	0.031	1.34	1.47	63.64
7318	2.18	0.028	1.28	1.30	59.63
7319 NP	2.18	0.047	----	1.31	-----
7320	2.19	0.035	1.60	1.46	66.67

NP = NOT PREGNANT (VALUES EXCLUDED FROM AVERAGES)
ALL WEIGHTS WERE RECORDED IN GRAMS (G). ABS. WT. = ORGAN WEIGHT. REL. % BRW = (ORGAN WEIGHT/BRAIN WEIGHT) x 100.

a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation; values excluded from group averages and statistical analyses.
b. Dam 7295 was found dead on day 22 of gestation; values excluded from group averages and statistical analyses.
c. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 1): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
1 0 (CARRIER)	7202	21	ALL PUPS APPEARED NORMAL.
	7204	1	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		5	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		7	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7205	21	1 PUP: KIDNEYS, LEFT, PELVIS, SLIGHT DILATION; KIDNEYS, RIGHT, PELVIS, MODERATE DILATION. ALL OTHER TISSUES APPEARED NORMAL. ALL OTHER PUPS APPEARED NORMAL.
	7208	21	ALL PUPS APPEARED NORMAL.
	7210	21	ALL PUPS APPEARED NORMAL.
	7211	1	1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7213	21	ALL PUPS APPEARED NORMAL.
	7214	18	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7215	21	ALL PUPS APPEARED NORMAL.
	7216	21	ALL PUPS APPEARED NORMAL.
	7217	10	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7218	21	ALL PUPS APPEARED NORMAL.
	7219	21	ALL PUPS APPEARED NORMAL.
	7223	21	ALL PUPS APPEARED NORMAL.
	7224	21	ALL PUPS APPEARED NORMAL.
	7225	21	ALL PUPS APPEARED NORMAL.
	7226	21	ALL PUPS APPEARED NORMAL.
	7227	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 2): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
1 (Cont.)			
0 (CARRIER)	7228	21	ALL PUPS APPEARED NORMAL.
	7229	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 3): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
2 0.3	7231	9	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7232	21	ALL PUPS APPEARED NORMAL.
	7233	7	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7234	21	ALL PUPS APPEARED NORMAL.
	7235	8	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7236	21	ALL PUPS APPEARED NORMAL.
	7237	12	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7238	5	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		12	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		14	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7239	21	ALL PUPS APPEARED NORMAL.
	7240	21	ALL PUPS APPEARED NORMAL.
	7241	1	1 PUP: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7242	21	ALL PUPS APPEARED NORMAL.
	7244	21	ALL PUPS APPEARED NORMAL.
	7245	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 4): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
2 (Cont.)			
0.3	7246	9	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7247	21	ALL PUPS APPEARED NORMAL.
	7248	21	ALL PUPS APPEARED NORMAL.
	7249	21	ALL PUPS APPEARED NORMAL.
	7250	21	ALL PUPS APPEARED NORMAL.
	7251	21	ALL PUPS APPEARED NORMAL.
	7252	21	ALL PUPS APPEARED NORMAL.
	7254	1	1 PUP: FOUND DEAD. NO MILK IN STOMACH. NO NECROPSY OBSERVATIONS WERE RECORDED.
			1 PUP: FOUND DEAD. CANNIBALIZATION PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7255	2	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL FOR DEGREE OF AUTOLYSIS.
		21	ALL PUPS APPEARED NORMAL.
	7256	21	ALL PUPS APPEARED NORMAL.
	7257	21	ALL PUPS APPEARED NORMAL.
	7258	21	ALL PUPS APPEARED NORMAL.
	7259	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 5): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
3 3.0	7262	1	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7263	1	1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.
		12	1 PUP: FOUND DEAD. NO MILK IN STOMACH. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7264	2	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7265	1	2 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL.
		9	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7266	21	ALL PUPS APPEARED NORMAL.
	7267	1	1 PUP: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		7	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		17	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7268	21	ALL PUPS APPEARED NORMAL.
	7269	21	ALL PUPS APPEARED NORMAL.
	7270	21	ALL PUPS APPEARED NORMAL.
	7271	10	1 PUP: FOUND DEAD. CANNIBALIZATION PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 6): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
3 (Cont.)			
3.0	7272	2	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		7	2 PUPS: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7273	9	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7274	18	2 PUPS: FOUND DEAD. CANNIBALIZATION PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7275	21	ALL PUPS APPEARED NORMAL.
	7276	2	1 PUP: FOUND DEAD. CANNIBALIZATION PRECLUDED FURTHER EVALUATION.
		3	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7277	21	ALL PUPS APPEARED NORMAL.
	7278	21	ALL PUPS APPEARED NORMAL.
	7279	1	1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7280	21	ALL PUPS APPEARED NORMAL.
	7281	21	ALL PUPS APPEARED NORMAL.
	7282	21	ALL PUPS APPEARED NORMAL.
	7283	21	ALL PUPS APPEARED NORMAL.
	7284	21	ALL PUPS APPEARED NORMAL.
	7285	21	ALL PUPS APPEARED NORMAL.
	7286	21	ALL PUPS APPEARED NORMAL.
	7287	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 7): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
3 (Cont.)			
3.0	7288	12	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7289	21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 8): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
4 30.0	7291	21	ALL PUPS APPEARED NORMAL.
	7292	1	1 PUP: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		11	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7294	1	4 PUPS: STILLBORN. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7296	1	1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.
		2	1 PUP: FOUND DEAD. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7297	21	ALL PUPS APPEARED NORMAL.
	7298	21	ALL PUPS APPEARED NORMAL.
	7299	21	1 PUP: KIDNEYS, RIGHT, PELVIS, SLIGHT DILATION; KIDNEYS, LEFT, PELVIS, EXTREME DILATION; KIDNEYS, LEFT, SMALL (0.09 G). ALL OTHER TISSUES APPEARED NORMAL. 1 PUP: KIDNEYS, LEFT, PELVIS, EXTREME DILATION; KIDNEYS, LEFT, SMALL (0.13 G). ALL OTHER TISSUES APPEARED NORMAL. 1 PUP: KIDNEYS, LEFT, PELVIS, EXTREME DILATION. ALL OTHER TISSUES APPEARED NORMAL. ALL OTHER PUPS APPEARED NORMAL.
	7300	21	ALL PUPS APPEARED NORMAL.
	7301	21	ALL PUPS APPEARED NORMAL.
	7302	2	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E53 (PAGE 9): NECROPSY OBSERVATIONS - INDIVIDUAL DATA - F2 GENERATION PUPS

MATERNAL DOSAGE GROUP MATERNAL TARGET DOSAGE (MG/KG/DAY)	LITTER NUMBER	DAY(S) POSTPARTUM	OBSERVATIONS a
4 (Cont.)			
30.0	7303	2	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		7	1 PUP: FOUND DEAD. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7304	8	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		9	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7306	21	ALL PUPS APPEARED NORMAL.
	7308	21	ALL PUPS APPEARED NORMAL.
	7309	1	2 PUPS: STILLBORN. AUTOLYSIS PRECLUDED FURTHER EVALUATION.
		21	ALL PUPS APPEARED NORMAL.
	7310	9	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7311	21	ALL PUPS APPEARED NORMAL.
	7312	21	ALL PUPS APPEARED NORMAL.
	7313	21	ALL PUPS APPEARED NORMAL.
	7314	21	ALL PUPS APPEARED NORMAL.
	7315	1	1 PUP: FOUND DEAD. NO MILK IN STOMACH. ALL OTHER TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.
	7316	21	ALL PUPS APPEARED NORMAL.
	7317	21	ALL PUPS APPEARED NORMAL.
	7318	21	ALL PUPS APPEARED NORMAL.
	7320	1	1 PUP: STILLBORN. ALL TISSUES APPEARED NORMAL.
		21	ALL PUPS APPEARED NORMAL.

a. Complete necropsies were not performed on pups in which autolysis or cannibalization precluded evaluation. Refer to the individual pup clinical observations table (Table E49) for external clinical observations confirmed at necropsy.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 1): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7201	NOT PREGNANT					7210	2	1.33	0.10	0.12	0.009
							6	1.42	0.09	0.14	0.005
							7	1.44	0.11	0.18	0.011
7202	1	1.60	0.21	0.25	0.006	7211	1	1.42	0.15	0.16	0.007
	2	1.50	0.18	0.19	0.006		2	1.41	0.10	0.10	0.009
	4	1.42	0.10	0.16	0.007		6	1.47	0.13	0.17	0.009
7203	NOT PREGNANT					7212a					
7204	1	1.38	0.14	0.24	0.010	7213	1	1.45	0.09	0.08	0.008
	2	1.35	0.14	0.17	0.011		6	1.52	0.17	0.19	0.007
	6	1.31	0.10	0.21	0.007		9	1.50	0.13	0.12	0.006b
							11	1.49	0.11	0.12	0.007
7205	1	1.55	0.17	0.22	0.008	7214	1	1.38	0.18	0.20	0.011
	2	1.42	0.14	0.22	0.007		2	1.48	0.11	0.23	0.009
	3	1.48	0.14	0.22	0.008		6	1.40	0.12	0.15	0.005c
7206	NOT PREGNANT					7215	4	1.39	0.19	0.21	0.008
							5	1.46	0.21	0.22	0.012
							7	1.49	0.22	0.22	0.010
7207	NOT PREGNANT					7216	1	1.60	0.20	0.23	0.008
							10	1.57	0.20	0.25	0.009
							11	1.60	0.19	0.25	0.009
7208	2	1.61	0.19	0.27	0.009	7217	1	1.50	0.10	0.14	0.008
	5	1.57	0.18	0.27	0.009		2	1.52	0.15	0.18	0.009
	6	1.57	0.15	0.22	0.008		3	1.47	0.19	0.22	0.006
7209	NOT PREGNANT					7218	1	1.44	0.12	0.18	0.006
							5	1.45	0.11	0.15	0.007
							9	1.49	0.13	0.16	0.009

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

b. Damaged during processing (weight not affected).

c. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 2): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7219	2	1.61	0.17	0.23	0.008	7225	1	1.63	0.24	0.30	0.012
	3	1.52	0.12	0.21	0.008		3	1.58	0.30	0.35	0.011
	4	1.58	0.19	0.25	0.009		4	1.59	0.22	0.28	0.013
7220	NOT PREGNANT					7226	1	1.50	0.20	0.18	0.007
							2	1.53	0.23	0.23	0.006
							4	1.51	0.19	0.20	0.007
7221	NOT PREGNANT					7227	2	1.47	0.18	0.20	0.008
							6	1.53	0.19	0.18	0.007
							8	1.50	0.17	0.18	0.007
7222	NOT PREGNANT					7228	5	1.47	0.10	0.14	0.013
							6	1.48	0.10	0.15	0.006
							8	1.41	0.09	0.12	0.011
7223	1	1.56	0.32	0.33	0.010	7229	1	1.44	0.16	0.17	0.011
							2	1.45	0.16	0.21	0.006
							3	1.48	0.14	0.18	0.008
7224	2	1.42	0.15	0.19	0.011	7230	MATING NOT CONFIRMED				
	6	1.43	0.11	0.20	0.015						
	7	1.41	0.15	0.19	0.014						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 3): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7231	2	1.58	0.18	0.19	0.018	7240	1	1.42	0.12	0.19	0.006
	3	1.52	0.16	0.17	0.016		3	1.46	0.10	0.15	0.004
	4	1.62	0.19	0.18	0.019		5	1.41	0.12	0.19	0.008
7232	1	1.38	0.10	0.14	0.005	7241	2	1.37	0.10	0.12	0.006
	5	1.39	0.09	0.12	0.005		4	1.32	0.07	0.10	0.006
	6	1.44	0.09	0.14	0.006		6	1.37	0.09	0.11	0.005
7233	2	1.50	0.13	0.22	0.009	7242	2	1.54	0.20	0.21	0.009
	4	1.42	0.10	0.16	0.004		4	1.56	0.17	0.21	0.008
	5	1.48	0.11	0.20	0.006		6	1.55	0.15	0.23	0.009
7234	1	1.45	0.14	0.19	0.007	7243	MATING NOT CONFIRMED				
	2	1.50	0.13	0.15	0.009						
	3	1.33	0.14	0.18	0.005						
7235	2	1.55	0.15	0.16	0.013	7244	2	1.62	0.22	0.23	0.006
	3	1.58	0.16	0.18	0.006		4	1.65	0.25	0.30	0.008
	4	1.54	0.13	0.15	0.005		5	1.46	0.21	0.21	0.005
7236	2	1.41	0.10	0.12	0.007	7245	1	1.50	0.12	0.16	0.007
	3	1.53	0.16	0.14	0.007		4	1.47	0.10	0.09	0.005
	4	1.52	0.20a	0.17	0.007		9	1.45	0.09	0.13	0.004b
7237	1	1.47	0.12	0.18	0.009	7246	1	1.47	0.16	0.15	0.009
	3	1.42	0.14	0.19	0.008		3	1.45	0.15	0.20	0.008
	4	1.39	0.13	0.19	0.006		5	1.50	0.16	0.17	0.009
7238	1	1.34	0.13	0.18	0.008	7247	1	1.33	0.17	0.29	0.007
	3	1.36	0.11	0.16	0.006		2	1.45	0.14	0.16	0.007
	4	1.30	0.12	0.14	0.008		3	1.44	0.15	0.18	0.007
7239	2	1.51	0.17	0.23	0.007	7248	1	1.39	0.10	0.12	0.006
	5	1.45	0.20	0.26	0.009		5	1.42	0.12	0.16	0.012
	9	1.43	0.20	0.22	0.008		8	1.35	0.09	0.11	0.004

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing.

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 4): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7249	1	1.59	0.23	0.24	0.007	7255	1	1.45	0.15	0.21	0.006
	3	1.53	0.19	0.21	0.006		2	1.53	0.15	0.18	0.010
	4	1.51	0.20	0.19	0.011						
7250	1	1.55	0.22	0.19	0.008	7256	2	1.59	0.17	0.21	0.006
	3	1.56	0.18	0.20	0.011		4	1.52	0.18	0.25	0.008
	5	1.56	0.21	0.21	0.009		5	1.54	0.20	0.30	0.013
7251	1	1.44	0.10	0.15	0.008	7257	3	1.51	0.15	0.21	0.010
	6	1.50	0.08	0.13	0.007		4	1.53	0.13	0.18	0.007
	10	1.48	0.11	0.12	0.006		7	1.52	0.12	0.24	0.008a
7252	1	1.53	0.17	0.18	0.007	7258	2	1.52	0.15	0.16	0.008
	5	1.48	0.19	0.20	0.012		6	1.60	0.14	0.20	0.007
	6	1.42	0.20	0.15	0.005		7	1.54	0.14	0.15	0.007
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING					7259	1	1.44	0.09	0.12	0.028
							6	1.41	0.12	0.12	0.028
							10	1.50	0.11	0.13	0.007
7254	1	1.47	0.13	0.14	0.005	7260	NOT PREGNANT				
	5	1.49	0.14	0.16	0.011						
	7	1.40	0.15	0.17	0.012						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 5): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 3 — 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7261	NOT PREGNANT					7270	2	1.44	0.13	0.20	0.007
							3	1.48	0.09	0.20	0.009
							4	1.47	0.12	0.21	0.008
7262	4	1.50	0.10	0.19	0.028	7271	3	1.42	0.19	0.17	0.015
	5	1.51	0.12	0.18	0.025		4	1.45	0.17	0.68	0.017
	8	1.44	0.08	0.18	0.026		8	1.43	0.16	0.19	0.028
7263	3	1.53	0.13	0.18	0.009	7272	1	1.47	0.12	0.13	0.006a
	4	1.51	0.14	0.23	0.013		6	1.41	0.14	0.18	0.007a
	7	1.48	0.13	0.17	0.007		9	1.47	0.13	0.16	0.006
7264	2	1.48	0.13	0.20	0.004	7273	4	1.42	0.15	0.14	0.008
	3	1.46	0.16	0.24	0.003		5	1.49	0.15	0.17	0.007
	7	1.47	0.11	0.19	0.004		6	1.45	0.11	0.20	0.010
7265	1	1.41	0.16	0.21	0.011	7274	1	1.32	0.08	0.09	0.017
	2	1.46	0.22	0.24	0.013		2	1.39	0.11	0.10	0.024
	3	1.42	0.15	0.22	0.011		3	1.39	0.10	0.13	0.021
7266	2	1.50	0.09	0.17	0.007	7275	1	1.42	0.17	0.22	0.007
	3	1.45	0.15	0.21	0.008		6	1.40	0.18	0.14	0.004
	4	1.53	0.16	0.18	0.007a		8	1.38	0.18	0.15	0.009
7267	2	1.47	0.16	0.26	0.010	7276	1	1.54	0.12	0.19	0.009
	3	1.44	0.17	0.18	0.010		2	1.49	0.17	0.21	0.008
	4	1.49	0.15	0.19	0.009		3	1.57	0.15	0.18	0.008
7268	2	1.56	0.20	0.18	0.011	7277	1	1.55	0.21	0.24	0.007
	3	1.48	0.15	0.17	0.008		2	1.62	0.24	0.23	0.009
	6	1.47	0.13	0.16	0.007		3	1.63	0.26	0.27	0.010
7269	4	1.57	0.15	0.18	0.007	7278	1	1.45	0.11	0.14	0.009
	5	1.52	0.20	0.22	0.007		2	1.49	0.10	0.14	0.007
	6	1.52	0.17	0.17	0.008		3	1.47	0.10	0.16	0.007

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 6): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 3 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7279	1	1.48	0.15	0.19	0.005	7285	3	1.40	0.11	0.17	0.006
	4	1.55	0.16	0.20	0.007		4	1.37	0.09	0.15	0.006
	7	1.48	0.14	0.15	0.007		7	1.39	0.10	0.11	0.005
7280	1	1.59	0.24	0.32	0.010	7286	7	1.52	0.13	0.19	0.007
	2	1.58	0.27	0.23	0.009		10	1.54	0.12	0.15	0.005
							12	1.54	0.11	0.19	0.006
7281	3	1.42	0.10	0.16	0.007	7287	2	1.44	0.18	0.17	0.009
	9	1.45	0.12a	0.16	0.009		4	1.47	0.12	0.17	0.009
	10	1.48	0.10	0.20	0.010		5	1.47	0.15	0.18	0.014
7282	1	1.50	0.19	0.20	0.007	7288	2	1.60	0.16	0.14	0.008
	3	1.58	0.19	0.25	0.008		6	1.56	0.15	0.17	0.007
	4	1.54	0.17	0.20	0.011		7	1.52	0.14	0.18	0.010
7283	4	1.43	0.14	0.12	0.005	7289	1	1.66	0.31	0.40	0.012
	5	1.40	0.13	0.10	0.005		2	1.75	0.28	0.37	0.013
	10	1.46	0.15	0.16	0.005b		3	1.62	0.27	0.37	0.011
7284	1	1.59	0.22	0.29	0.007	7290	NOT PREGNANT				
	2	1.68	0.26	0.23	0.013						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing.

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 7): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7291	1	1.40	0.16	0.18	0.010	7300	3	1.49	0.11	0.13	0.007
	3	1.37	0.14	0.18	0.008		8	1.59	0.14	0.20	0.007
	5	1.48	0.16	0.14	0.004a		11	1.51	0.12	0.21	b
7292	1	1.31	0.14	0.17	0.007	7301	3	1.47	0.11	0.12	0.008
	3	1.35	0.14	0.16	0.009		5	1.44	0.12	0.17	0.010
	5	1.42	0.12	0.21	0.007		6	1.43	0.10	0.15	0.012
7293c						7302	1	1.41	0.12	0.16	0.009
							2	1.45	0.14	0.15	0.011
							5	1.43	0.16	0.22	0.008
7294	1	1.49	0.12	0.19	0.009	7303	4	1.36	0.15	0.16	0.009
	2	1.44	0.12	0.16	0.009		7	1.45	0.13	0.27	0.011
	5	1.46	0.13	0.19	0.008		8	1.37	0.17	0.18	0.008
7295	FOUND DEAD ON DAY 22 OF GESTATION					7304	1	1.47	0.11	0.13	0.007
							3	1.44	0.12	0.14	0.008
							4	1.35	0.11	0.10	0.010
7296	1	1.43	0.16	0.18	0.010	7305	NOT PREGNANT				
	3	1.50	0.17	0.22	0.012						
	4	1.51	0.17	0.21	0.008						
7297	2	1.57	0.19	0.21	0.011	7306	1	1.33	0.14	0.13	0.009
	5	1.49	0.19	0.24	0.012		3	1.53	0.10	0.10	0.008
	6	1.54	0.22	0.21	0.013		5	1.38	0.09	0.10	0.005
7298	1	1.40	0.19	0.21	0.009	7307	NOT PREGNANT				
	4	1.45	0.14	0.23	0.008						
	6	1.32	0.13	0.17	0.009						
7299	2	1.50	0.11	0.16	0.005	7308	1	1.41	0.22	0.23	0.009
	6	1.47	0.12	0.15	0.006		2	1.43	0.22	0.28	0.011
	8	1.45	0.16	0.18	0.006		5	1.53	0.19	0.30	0.011

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

b. Value was not recorded.

c. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E54 (PAGE 8): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION MALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7309	1	1.54	0.24	0.25	0.009	7315	1	1.54	0.27	0.27	0.013
	2	1.52	0.21	0.26	0.008		3	1.56	0.20	0.26	0.012
	4	1.54	0.22	0.21	0.011		6	1.56	0.20	0.23	0.009
7310	5	1.49	0.16	0.18	0.009	7316	1	1.54	0.22	0.25	0.009
	6	1.44	0.16	0.15	0.010		5	1.60	0.37	0.32	0.012
	8	1.44	0.15	0.17	0.010		6	1.47	0.25	0.24	0.012
7311	1	1.46	0.19	0.18	0.010	7317	1	1.65	0.13	0.22	0.007
	3	1.53	0.21	0.19	0.011		2	1.50	0.12	0.15	0.008
	4	1.55	0.24	0.25	0.011		4	1.45	0.11	0.13	0.006
7312	2	1.43	0.09	0.13	0.006	7318	1	1.45	0.12	0.19	0.010
	4	1.50	0.08	0.11	0.006		2	1.39	0.09	0.16	0.007
	9	1.48	0.10	0.09	0.006		4	1.43	0.10	0.20	0.008
7313	1	1.58	0.25	0.30	0.012	7319	NOT PREGNANT				
7314	1	1.60	0.36	0.37	0.013	7320	2	1.38	0.12	0.13	0.008
	2	1.59	0.41	0.30	0.011		4	1.41	0.13	0.14	0.007
							6	1.38	0.11	0.10	0.011

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E55 (PAGE 1): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7201	NOT PREGNANT					7210	13	1.40	0.09	0.16	0.007
							15	1.39	0.10	0.15	0.005
							16	1.38	0.10	0.16	0.005
7202	10	1.23	0.11	0.14	0.005	7211	12	1.44	0.14	0.16	0.006
	14	1.38	0.09	0.13	0.009a		14	1.40	0.17	0.18	0.008
	16	1.33	0.10	0.14	0.006		15	1.42	0.15	0.17	0.010
7203	NOT PREGNANT					7212b					
7204	10	1.29	0.13	0.17	0.008	7213	15	1.40	0.11	0.15	0.005
	11	1.33	0.15	0.19	0.009		17	1.41	0.12	0.11	0.005
	12	1.30	0.13	0.22	0.011						
7205	6	1.48	0.19	0.27	0.009	7214	9	1.47	0.15	0.17	0.007
	7	1.46	0.18	0.28	0.009		12	1.46	0.11	0.19	0.006c
	8	1.47	0.20	0.30	0.011		13	1.44	0.14	0.20	0.007
7206	NOT PREGNANT					7215	11	1.45	0.23	0.17	0.008
							12	1.44	0.20	0.23	0.009
							14	1.49	0.19	0.22	0.006
7207	NOT PREGNANT					7216	12	1.48	0.24	0.26	0.009
							13	1.50	0.23	0.24	0.008
7208	7	1.58	0.17	0.25	0.009	7217	10	1.38	0.15	0.20	0.006
	9	1.56	0.21	0.30	0.013		11	1.39	0.12	0.19	0.007
	13	1.57	0.16	0.25	0.007		12	1.38	0.18	0.18	0.008
7209	NOT PREGNANT					7218	12	1.46	0.12	0.20	0.005
							13	1.43	0.13	0.19	0.007
							15	1.45	0.10	0.21	0.006

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight not affected).

b. Dam 7212 did not deliver a litter; only one early resorption was present in utero on day 25 of gestation.

c. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E55 (PAGE 2): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 1 0 (CARRIER) MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7219	8	1.55	0.15	0.24	0.007	7225	6	1.61	0.33	0.35	0.012
	10	1.54	0.20	0.25	0.008		8	1.63	0.27	0.32	0.011
	12	1.53	0.17	0.21	0.008		11	1.57	0.25	0.27	0.011
7220	NOT PREGNANT					7226	6	1.40	0.18	0.20	0.011
							11	1.41	0.21	0.25	0.007
							13	1.45	0.20	0.28	0.006
7221	NOT PREGNANT					7227	12	1.42	0.17	0.20	0.007
							14	1.41	0.16	0.19	0.006
							15	1.45	0.15	0.16	0.006
7222	NOT PREGNANT					7228	12	1.40	0.10	0.16	0.008
							17	1.41	0.09	0.17	0.007
							18	1.38	0.09	0.16	0.006
7223	2	1.50	0.31	0.36	0.011	7229	8	1.38	0.13	0.17	0.008
							9	1.40	0.17	0.18	0.008
							10	1.46	0.17	0.17	0.008
7224	9	1.30	0.13	0.24	0.009	7230	MATING NOT CONFIRMED				
	10	1.33	0.14	0.22	0.002a						
	12	1.31	0.13	0.20	0.010						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E55 (PAGE 3): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7231	6	1.44	0.17	0.22	0.017	7240	8	1.48	0.13	0.19	0.008
	8	1.48	0.17	0.23	0.018		12	1.41	0.11	0.15	0.007
	13	1.46	0.14	0.22	0.027		14	1.40	0.09	0.18	0.012
7232	8	1.43	0.09	0.12	0.008	7241	8	1.36	0.11	0.13	0.005
	14	1.40	0.12	0.15	0.006		9	1.41	0.12	0.16	0.004
	15	1.41	0.10	0.15	0.006		15	1.25	0.06	0.10	0.006
7233	9	1.46	0.12	0.23	0.007	7242	10	1.48	0.19	0.20	0.008
	14	1.45	0.12	0.16	0.006		11	1.47	0.14	0.22	0.010
	15	1.42	0.11	0.13	0.007		13	1.53	0.19	0.20	0.007
7234	5	1.43	0.15	0.18	0.009	7243	MATING NOT CONFIRMED				
	10	1.34	0.13	0.14	0.010						
	13	1.42	0.19	0.17	0.009						
7235	7	1.45	0.13	0.15	0.004	7244	8	1.56	0.25	0.25	0.008
	9	1.52	0.17	0.18	0.008		9	1.59	0.24	0.24	0.009
	12	1.47	0.14	0.18	0.006		12	1.59	0.31	0.25	0.009
7236	5	1.45	0.20	0.18	0.007	7245	14	1.42	0.10	0.12	0.005
	7	1.45	0.13	0.12	0.005		16	1.44	0.10	0.11	0.004a
	10	1.37	0.14	0.16	0.007		17	1.37	0.08	0.09	0.004
7237	8	1.42	0.16	0.17	0.007	7246	9	1.52	0.18	0.22	0.007
	9	1.34	0.09	0.14	0.009		14	1.46	0.17	0.19	0.008
	11	1.40	0.13	0.17	0.009		16	1.50	0.14	0.18	0.008
7238	11	1.35	0.10	0.15	0.006	7247	6	1.44	0.20	0.18	0.009
	14	1.32	0.09	0.15	0.010		10	1.51	0.20	0.21	0.013
	17	1.30	0.10	0.15	0.012		11	1.41	0.19	0.22	0.014
7239	13	1.51	0.20	0.20	0.008	7248	10	1.32	0.10	0.15	0.004a
	14	1.45	0.16	0.21	0.009		15	1.40	0.13	0.17	0.006
	15	1.50	0.16	0.21	0.007		17	1.39	0.12	0.16	0.006

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E55 (PAGE 4): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 2 0.3 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7249	5	1.43	0.17	0.15	0.007	7255	4	1.45	0.20	0.18	0.006
	6	1.58	0.18	0.19	0.007		5	1.45	0.18	0.28	0.012
	12	1.49	0.21	0.18	0.009		11	1.49	0.15	0.21	0.012
7250	7	1.53	0.19	0.20	0.009	7256	7	1.50	0.13	0.21	0.010
	8	1.53	0.19	0.22	0.010		9	1.54	0.23	0.25	0.007
	12	1.59	0.20	0.21	0.008		13	1.54	0.16	0.18	0.006
7251	11	1.40	0.10	0.17	0.007	7257	9	1.54	0.11	0.19	0.007
	14	1.40	0.09	0.15	0.007		13	1.44	0.12	0.18	0.007
	15	1.34	0.07	0.12	0.005		15	1.47	0.12	0.16	0.009
7252	12	1.45	0.18	0.16	0.007a	7258	11	1.42	0.16	0.19	0.007
	13	1.52	0.17	0.22	0.008		12	1.50	0.16	0.21	0.007
	14	1.51	0.15	0.14	0.008a		14	1.48	0.13	0.20	0.010
7253	MORIBUND SACRIFICED ON DAY 62 POSTWEANING					7259	11	1.38	0.10	0.17	0.005
							15	1.39	0.11	0.17	0.006
							16	1.43	0.13	0.18	0.008
7254	13	1.34	0.09	0.11	0.012	7260	NOT PREGNANT				
	16	1.36	0.14	0.13	0.009						
	17	1.34	0.11	0.12	0.004						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight not affected).

TABLE E55 (PAGE 5): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 3 — 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7261	NOT PREGNANT					7270	6	1.33	0.14	0.16	0.015
							8	1.40	0.11	0.15	0.008
							10	1.39	0.11	0.20	0.011
7262	11	1.44	0.10	0.14	0.025	7271	15	1.38	0.15	0.18	0.017
	13	1.44	0.09	0.17	0.024						
	15	1.49	0.10	0.23	0.026						
7263	11	1.47	0.14	0.22	0.007	7272	12	1.45	0.12	0.18	0.007
	12	1.47	0.17	0.18	0.007		13	1.41	0.13	0.21	0.006
	13	1.46	0.12	0.20	0.010		14	1.39	0.14	0.17	0.006a
7264	11	1.50	0.16	0.20	0.007	7273	12	1.34	0.12	0.20	0.008
	13	1.49	0.10	0.15	0.008		13	1.45	0.13	0.18	0.008
	14	1.42	0.09	0.16	b		14	1.44	0.15	0.20	0.011
7265	8	1.60	0.21	0.22	0.011	7274	8	1.32	0.11	0.13	0.020
	10	1.38	0.14	0.23	0.010		9	1.39	0.08	0.15	0.018
	11	1.42	0.18	0.21	0.011		12	1.37	0.15	0.20	0.022
7266	6	1.39	0.15	0.17	0.005	7275	10	1.36	0.14	0.16	0.009
	8	1.48	0.12	0.21	0.006		11	1.35	0.20	0.19	b
	13	1.37	0.11	0.16	0.006		14	1.37	0.15	0.13	0.005
7267	8	1.43	0.18	0.27	0.009	7276	9	1.50	0.15	0.17	0.007
	10	1.40	0.16	0.22	0.009		11	1.41	0.12	0.16	0.007
	11	1.36	0.17	0.23	0.008		13	1.39	0.11	0.10	0.007
7268	7	1.44	0.14	0.23	0.009	7277	8	1.56	0.24	0.29	0.008
	11	1.46	0.18	0.20	0.009		9	1.53	0.20	0.25	0.012
	12	1.47	0.16	0.21	0.007		11	1.45	0.24	0.22	0.009
7269	13	1.49	0.16	0.24	0.007	7278	12	1.39	0.12	0.15	0.008
	14	1.58	0.15	0.26	0.007		14	1.50	0.10	0.13	0.005a
	15	1.51	0.18	0.19	0.007		15	1.47	0.10	0.15	0.006

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight not affected).

b. Value was not recorded.

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E55 (PAGE 6): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 3 3.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7279	10	1.43	0.15	0.16	0.007	7285	10	1.43	0.09	0.12	0.007
	14	1.46	0.11	0.13	0.008		11	1.21	0.11	0.13	0.005
	16	1.46	0.13	0.18	0.006a		18	1.35	0.12	0.14	0.009
7280	4	1.50	0.23	0.26	0.009	7286	14	1.49	0.13	0.17	0.006
	5	1.46	0.20	0.24	0.009		15	1.46	0.13	0.17	0.004
	8	1.53	0.21	0.28	0.009		16	1.51	0.13	0.19	0.005
7281	13	1.45	0.13	0.19	0.010	7287	9	1.34	0.13	0.16	0.010
	15	1.43	0.12	0.17	0.007		13	1.44	0.13	0.20	0.009
	16	1.37	0.10	0.21	0.008		14	1.32	0.10	0.16	0.008
7282	6	1.53	0.15	0.22	0.013	7288	9	1.56	0.13	0.15	0.010a
	8	1.54	0.22	0.23	0.012		12	1.57	0.13	0.15	0.008
	10	1.50	0.18	0.22	0.012		13	1.52	0.12	0.19	0.006
7283	15	1.42	0.16	0.19	0.007	7289	5	1.59	0.25	0.37	0.011
	16	1.36	0.15	0.15	0.007		7	1.54	0.27	0.40	0.010
	17	1.40	0.15	0.11	0.006		8	1.60	0.26	0.36	0.010
7284	3	1.56	0.24	0.27	0.009	7290	NOT PREGNANT				
	5	1.51	0.20	0.28	0.015						
	6	1.57	0.26	0.33	0.031						

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E55 (PAGE 7): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7291	8	1.33	0.14	0.15	0.010	7300	14	1.49	0.09	0.12	0.008
	10	1.31	0.14	0.14	0.011		15	1.54	0.15	0.20	0.007
	16	1.29	0.16	0.18	0.010		16	1.40	0.10	0.14	0.007
7292	10	1.45	0.13	0.16	0.007	7301	7	1.41	0.13	0.13	0.007
	12	1.29	0.15	0.16	0.006		12	1.45	0.13	0.17	0.008
	14	1.26	0.11	0.14	0.008		14	1.43	0.16	0.16	0.008
7293a						7302	11	1.44	0.18	0.21	0.010
							14	1.45	0.18	0.19	0.010
							18	1.35	0.15	0.22	0.010
7294	12	1.38	0.13	0.13	0.009	7303	11	1.34	0.13	0.20	0.007b
	15	1.44	0.12	0.18	0.008		12	1.44	0.14	0.17	0.009
	16	1.45	0.14	0.23	0.007		13	1.31	0.15	0.18	0.008
7295	FOUND DEAD ON DAY 22 OF GESTATION					7304	12	1.39	0.08	0.12	0.007
							14	1.24	0.06	0.06	0.006
							18	1.31	0.08	0.10	0.008
7296	7	1.42	0.17	0.23	0.009	7305	NOT PREGNANT				
	9	1.46	0.19	0.23	0.008						
	10	1.56	0.20	0.22	0.010						
7297	7	1.48	0.21	0.21	0.009	7306	10	1.42	0.12	0.11	0.007
	8	1.54	0.21	0.29	0.012		13	1.39	0.11	0.13	0.008
	9	1.55	0.20	0.27	0.011		15	1.41	0.12	0.09	0.009
7298	11	1.25	0.18	0.27	0.009	7307	NOT PREGNANT				
	12	1.43	0.15	0.22	0.008						
	13	1.41	0.16	0.23	0.010						
7299	9	1.42	0.09	0.18	0.005	7308	8	1.28	0.21	0.27	0.012
	11	1.40	0.11	0.15	0.009		9	1.42	0.23	0.21	0.013
	13	1.41	0.10	0.15	0.004		10	1.38	0.21	0.32	0.010

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Dam 7293 did not deliver a litter; only three early resorptions were present in utero on day 25 of gestation.

b. Damaged during processing (weight not affected).

PROTOCOL 1416-001: ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

TABLE E55 (PAGE 8): ORGAN WEIGHTS - INDIVIDUAL DATA - F2 GENERATION FEMALE PUPS

MATERNAL DOSAGE GROUP 4 30.0 MG/KG/DAY

LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID	LITTER NUMBER	PUP NUMBER	BRAIN	SPLEEN	THYMUS	THYROID/ PARATHYROID
7309	6	1.46	0.20	0.26	0.010	7315	10	1.58	0.24	0.29	0.009
	8	1.51	0.23	0.24	0.010		11	1.47	0.25	0.30	0.008
	11	1.43	0.24	0.23	0.007		12	1.48	0.23	0.20	0.008
7310	11	1.35	0.13	0.17	0.004a	7316	7	1.53	0.26	0.32	0.010
	12	1.35	0.13	0.16	0.009		8	1.47	0.29	0.23	0.009
	13	1.34	0.16	0.15	0.008						
7311	7	1.45	0.22	0.27	0.010	7317	10	1.42	0.11	0.14	0.008
	11	1.49	0.18	0.21	0.009		11	1.40	0.12	0.13	0.007
	13	1.47	0.19	0.26	0.010		12	1.45	0.11	0.16	0.008
7312	13	1.40	0.06	0.13	0.007	7318	5	1.41	0.10	0.18	0.009
	14	1.42	0.07	0.12	0.009		9	1.41	0.14	0.22	0.009
	17	1.35	0.07	0.10	0.007		13	1.34	0.11	0.18	0.008
7313	3	1.48	0.28	0.24	0.011	7319	NOT PREGNANT				
	4	1.53	0.20	0.29	0.010						
	5	1.41	0.22	0.21	0.012						
7314	3	1.54	0.31	0.36	0.012	7320	12	1.43	0.09	0.12	0.007
	4	1.63	0.51	0.34	0.012		13	1.31	0.11	0.17	0.007
							15	1.29	0.11	0.10	0.007

ALL WEIGHTS WERE RECORDED IN GRAMS (G).

a. Damaged during processing (weight affected); value excluded from group averages and statistical analyses.

APPENDIX F

PROTOCOL AND AMENDMENTS

Argus Research Laboratories, Inc.
905 Sheehy Drive, Building A
Horsham, Pennsylvania 19044
T: (215) 443-8710 F: (215) 443-8587

PROTOCOL 1416-001

STUDY TITLE: Oral (Drinking Water) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perchlorate in Rats

PURPOSE: The purpose of this study is to provide information concerning the effects of Ammonium Perchlorate on the male and female reproductive systems in rats, including gonadal function, estrous cycles, mating behavior, conception, parturition, lactation, weaning and the growth and development of offspring. The study is also designed to provide information about effects on neonatal morbidity, mortality and preliminary data on potential prenatal developmental toxicity, as well as to serve as a guide for use in the design of subsequent tests.

TESTING FACILITY: Argus Research Laboratories, Inc.
905 Sheehy Drive, Building A
Horsham, Pennsylvania 19044-1297
Telephone: (215) 443-8710
Telefax: (215) 443-8587

STUDY DIRECTOR: Raymond G. York , Ph.D., DABT
Associate Director of Research

SPONSOR: Perchlorate Study Group
Highway 50 & Aerojet Road
Building 20019/Department 0330
Sacramento, California 95670

STUDY MONITOR: Michael F. Girard
Perchlorate Study Group Representative
Telephone: (916) 355-2945
Telefax: (916) 355-6145

SCIENTIFIC ADVISOR: Michael L. Dourson, Ph.D., DABT
Toxicology Excellence for Risk Assessment (TERA)

4303 Kirby Avenue
Cincinnati, Ohio 45223
Telephone: (513) 542-7475
Telefax: (513) 542-7487

REGULATORY CITATIONS:

U.S. Environmental Protection Agency (1996). Health Effects Test Guidelines; Reproduction and Fertility Effects. Prevention, Pesticides and Toxic Substances (OPPTS) 870.3800, February 1996.

U.S. Environmental Protection Agency (1984). *Pesticide Assessment Guidelines.* Subdivision F - Hazard Evaluation: Human and Domestic Animals, November, 1984 (Revised Edition).

Organization for Economic Cooperation and Development (1981). *Guidelines for Testing of Chemicals.* Section 4, No. 414: Teratogenicity, pp. 1-6.

Japanese Ministry of Agriculture, Forestry and Fisheries (1985). *Guidance on Toxicology Study Data for Application of Agricultural Chemical Registration.* 59 NohSan No. 4200.

U.S. Environmental Protection Agency. Toxic Substances Control Act (TSCA); Good Laboratory Practice Standards; Final Rule. 40 CFR Part 792.

U.S. Environmental Protection Agency. Federal Insecticide, Fungicide and Rodenticide Act (FIFRA); Good Laboratory Practice Standards; Final Rule. 40 CFR Part 160.

Organization for Economic Cooperation and Development (1992). The OECD Principles of Good Laboratory Practice, Environment Monograph No. 45.

Japanese Ministry of Agriculture, Forestry and Fisheries (1984). *Good Laboratory Practice Standards.* 59 NohSan No. 3850.

REGULATORY COMPLIANCE

This study will be conducted in compliance with the Good Laboratory Practice (GLP) regulations cited above. All changes or revisions of this protocol shall be documented, signed by the Study Director and the Sponsor, dated and maintained with the protocol.

The Quality Assurance Unit (QAU) will audit the protocol, the raw data and the report, and will inspect critical phases of the study in accordance with the Standard Operating Procedures of Argus Research Laboratories, Inc.

The final report will include a statement signed by the Study Director that the report accurately reflects the raw data obtained during the performance of the study and that

all applicable Good Laboratory Practice (GLP) regulations were followed in the conduct of the study. Should significant deviations from GLP regulations occur, each will be described in detail, together with how the deviation might affect the quality or integrity of the study.

SCHEMATIC OF STUDY DESIGN AND STUDY SCHEDULE:

See ATTACHMENT 1 to the protocol.

TEST SUBSTANCE AND CARRIER:

Identification:

Test Substance:

Ammonium Perchlorate. Source and lot identification will be added prior to finalization or documented in the raw data.

Carrier:

Reverse osmosis membrane processed deionized water (R.O. deionized water). Results of R.O. deionized water analyses will be included in the raw data and the final report.

Neither the Sponsor nor the Study Director is aware of any potential contaminants likely to be present in the carrier that would interfere with the results of this study. Therefore, no analyses other than those mentioned in this protocol will be conducted.

Safety Precautions:

Gloves, mask, appropriate eye protection, full Tyvek® suit and half-face respirator to be worn during formulation preparation. The Material Safety Data Sheet (MSDS) is attached to the protocol (see ATTACHMENT 2).

Storage:

Bulk Test Substance:	Room temperature.
Carrier:	Room temperature.
Prepared Formulations:	Prepared stock formulations will be stored refrigerated. Dosage solutions will be allowed to equilibrate to room temperature prior to use.

All test substance shipments to the Testing Facility should be addressed to the attention of Julian Gulbinski, Manager of Formulations, at the previously cited address and telephone number.

Shipments should include information concerning storage conditions and shipping cartons should be labeled appropriately. The recipient should be notified in advance of sample shipment.

FORMULATION:

Frequency of Preparation:

Formulations of the test substance will be prepared weekly at the Testing Facility. Detailed preparation procedures will be attached to this protocol (ATTACHMENT 3).

Adjustment for Purity:

The test substance will be considered 100% pure for the purpose of dosage calculations.

Testing Facility Reserve Samples:

The Testing Facility will reserve a 5 g sample of each lot of bulk test substance and a 5 mL sample of the carrier used during the course of the study. Samples will be stored under the previously cited conditions.

ANALYSES:

Samples additional to those described below may be taken if deemed necessary during the course of the study.

Bulk Test Substance Sampling:

A 1 g sample of the test substance will be taken on the last day of treatment and stored at the Testing Facility under previously cited conditions.

The recipient's name, address and telephone number will be added to the protocol prior to finalization or by amendment. The recipient will be notified in advance of sample shipment.

Concentration Analyses :

Concentration of the test substance in prepared solutions will be verified during the course of this study. Duplicate samples (10 mL each) will be taken from each formulation (including stock solution) on the day of the first preparation and monthly thereafter for the remainder of the exposure period. One sample of each duplicate set will be shipped for analysis; the remaining samples will be retained at the Testing Facility as backup samples. Backup samples will be stored under the previously cited conditions and discarded at the Testing Facility following report finalization.

Stability of Prepared Solutions:

Documentation of the stability of the prepared solutions, at concentrations that bracket the range to be used in this study, is on file with the Sponsor. Stability has been established for up to 109 days.

Shipping Instructions:

Samples to be analyzed will be shipped (shipping conditions) to:

Gloria Gates, B.S.
Lancaster Laboratories
2425 New Holland Pike
Lancaster, Pennsylvania 17601
Telephone: (717) 656-2301

The recipient will be notified in advance of sample shipment.

DISPOSITION:

All remaining bulk test substance and prepared formulations will be discarded at the Testing Facility.

TEST SYSTEM:

Species/Strain and Reason for Selection:

The Crl:CD®BR VAF/Plus® (Sprague-Dawley) rat was selected as the Test System because this strain of rat has been demonstrated to be sensitive to reproductive and developmental toxins and has been widely used throughout industry for reproductive and developmental toxicity evaluations[1-3].

Number:

P1 Generation:

Initial population acclimated:	130 virgin male rats and 130 virgin female rats.
Population selected for study:	120 virgin male rats and 120 virgin female rats (30 per sex per group).

F1 Generation:

120 male rats and 120 female rats, 30 rats per sex per group, will be selected for continued evaluation. An attempt will be made to select F1 generation rats to avoid overrepresentation of any P1 generation parental pair into the F2 generation.

Body Weight and Age:

P1 generation rats will be ordered to weigh from 100 g to 125 g each at receipt, at which time they will be expected to be at least 35 days of age. Actual body weights recorded will be recorded the day after receipt and will be documented in the raw data. The weight range will be included in the final report.

Sex:

Both male and female rats will be evaluated.

Source:

Charles River Laboratories, Inc.

The rats will be shipped in filtered cartons by air freight and/or truck from Charles River Laboratories, Inc., to the Testing Facility.

Identification:

P1 Generation:

Rats are permanently identified using Monel® self-piercing ear tags (Gey Band and Tag Co., Inc., No. MSPT 20101). Male and female rats will be assigned temporary numbers at receipt and given unique permanent identification numbers when assigned to the study before administration of the first dosage of the test substance.

F1 and F2 Generations:

Pups will not be individually identified during the postpartum period; all parameters will be evaluated in terms of the litter. At weaning, each F1 generation rat selected for continued observation will be identified with a Monel® ear tag.

ANIMAL HUSBANDRY:

All cage sizes and housing conditions are in compliance with the *Guide for the Care and Use of Laboratory Animals*[4].

Housing:

P1 Generation Rats/F1 Generation Litters:

P1 generation rats will be individually housed in stainless steel wire-bottomed cages except during the cohabitation and postpartum periods. During cohabitation, each pair of rats will be housed in the male rat's cage. Beginning no later than day 20 of presumed gestation, female rats will be individually housed in nesting boxes. Each dam and delivered litter will be housed in a common nesting box during the postpartum period.

F1 Generation Rats/F2 Generation Litters:

After weaning, the F1 generation rats will be individually housed before cohabitation, housed in pairs (one male rat per female rat) during cohabitation, and individually housed after cohabitation. The same type of caging will be used as described for the P1 generation rats. Beginning no later than day 20 of presumed gestation, female rats will be individually housed in nesting boxes. Each dam and delivered litter will be housed in a common nesting box during the postpartum period.

Nesting Material:

Bed-o'cobs®.

Bedding will be changed as often as necessary to keep the animals dry and clean. Analyses for possible contamination are conducted annually and documented in the raw data.

Room Air, Temperature and Humidity:

The animal room is independently supplied with at least ten changes per hour of 100% fresh air that has been passed through 99.97% HEPA filters (Airo Clean® room). Room temperature will be maintained at 64°F (18°C) to 79°F (26°C) and monitored constantly. Room humidity will also be monitored constantly and maintained at 30% to 70%.

Light:

An automatically-controlled 12-hour light:12-hour dark fluorescent light cycle will be maintained. Each dark period will begin at 1900 hours EST.

Diet:

Rats will be given Certified Rodent Diet® #5002 (PMI Nutrition International) available *ad libitum* from individual feeders.

Water:

Chlorine will not be added to the R.O. water as a bacteriostat during the acclimation and exposure period.

All water will be from a local source and passed through a reverse osmosis membrane before use. Water is analyzed monthly for possible bacterial contamination and twice annually for possible chemical contamination.

During the acclimation and pre-exposure periods, rats will be given R.O. deionized water only available *ad libitum* from individual amber bottles attached to the cages. During the exposure period, P1 rats and F1 rats will be given either R.O. deionized water only (carrier control group) or test drinking water prepared using R.O. deionized water and the test substance. These will be available *ad libitum* from individual bottles attached to the cages. During the postexposure period, following weaning, F2 pups selected for continued observation will be given R.O. deionized water with chlorine (added as a bacteriostat) via individual clear water bottles and/or automatic watering system.

Contaminants:

Neither the Sponsor nor the Study Director is aware of any potential contaminants likely to be present in the certified diet, the drinking water or the nesting material at levels that would interfere with the results of this study. Therefore, no analyses other than those routinely performed by the feed supplier or those mentioned in this protocol will be conducted.

RANDOMIZATION AND COHABITATION:

Upon arrival, P1 generation rats will be assigned to individual housing on the basis of computer-generated random units. After acclimation, rats will be selected for study on the basis of physical appearance and body weight. The rats will be assigned to dosage groups based on computer-generated (weight-ordered) randomization procedures at approximately 6 to 9 weeks of age.

Within each dosage group, consecutive order will be used to assign P1 generation rats to cohabitation, one male rat per female rat. A table of random units or a computer-generated random units will be used to assign F1 generation rats to cohabitation, one male rat per female rat. If random assignment to cohabitation results in the pairing of F1 generation siblings, an alternate assignment will be made.

The cohabitation period (P1 and F1 generation rats) will consist of a maximum of 14 days. Female rats with spermatozoa observed in a smear of the vaginal contents and/or a copulatory plug observed *in situ* will be considered to be at day 0 of presumed gestation and assigned to individual housing.

In certain instances, such as poor reproduction performance in the controls, or in the event of treatment-related alterations in litter size, the P1 or F1 generation adults may be remated to produce a second litter. If production of a second litter is deemed necessary in either generation, the dams will be remated approximately two weeks following weaning of the first litter.

Day 1 of lactation (postpartum) is defined as the day of birth and is also the first day on which all pups in a litter are individually weighed (pup body weights will be recorded after all pups in a litter are delivered and groomed by the dam).

All F1 generation rats will be weaned at the same age, based on observed growth and viability of these pups, and will occur on either day 21 postpartum, or if required, day 28 postpartum. Should it be necessary to extend the lactation period to day 28 postpartum, all affected observational intervals will be adjusted accordingly.

At weaning, a table of random units will be used to select 30 male and 30 female F1 generation pups per group, resulting in a total of 240 rats (120 per sex) chosen for continued evaluation. At least one male and one female pup per litter, when possible, will be selected. If results warrant that the studies are extended to include a third generation, the procedures previously described for the F1 generation will be used for selection of F2 generation pups continued on study.

ADMINISTRATION:

Route and Reason for Choice:

The oral (drinking water) route was selected for use because it is the most likely route of human exposure.

Method and Frequency:

A constant concentration (%) of the test substance equivalent to the target doses specified in the table below will be offered to the rats in the drinking water. The actual dosages in mg/kg/day consumed will be calculated and presented for periods corresponding to body weight and water consumption observations. Concentrations may be adjusted, if necessary, based on these calculations, too more closely match the target dosage levels.

P1 Generation:

Rats will be given continual access to the test substance in the drinking water beginning at least 70 days before cohabitation (approximately six weeks of age) and continuing through the day before sacrifice.

F1 Generation:

Rats may be exposed *in utero* during gestation and via maternal milk and maternal water during the postpartum period. F1 generation rats will be given the same test substance concentrations as their respective P1 generation sires and dams once daily beginning at weaning and continuing through the day before sacrifice.

F2 Generation:

F2 generation pups will not be directly given the test substance but may be possibly exposed to the test substance during maternal gestation (*in utero* exposure) or via maternal milk during the lactation period.

Rationale for Dosage Selection:

A carrier control and three test substance concentrations will be given to the rats. Dosages were selected on the basis of a previous fourteen day oral-dosing toxicity study with the test substance in which the NOAEL was 0.44 mg/kg/day and the LOAEL was 1.11 mg/kg/day, for the male rats, and 0.12 mg/kg/day and 0.47 mg/kg/day, respectively, for the female rats. Test substance concentrations may be adjusted if observations of toxicity in the P1 or the F1 generation rats indicate that it is required.

Target Dosages and Concentrations:

Group	Target Dosage (mg/kg/day)	Concentration (µg/mL)[a]	Number of P1 Rats Per Sex	Number of F1 Rats Per Sex
1	0 (Carrier)	0	30	30
2	0.3	2.3	30	30
3	3.0	22.8	30	30
4	30.0	227.4	30	30

The test article will be considered 100% pure for the purpose of dosage calculations.

a. Based on average water consumption of 33 mL/animal/day (132 mL/kg/day) for a 250 g rat. These concentrations would be adjusted weekly based on actual body weight and water consumption levels recorded the previous week.

TESTS, ANALYSES AND MEASUREMENTS - P1 GENERATION:

Viability - Male and Female Rats:

All Periods: At least twice daily.

Clinical Observations and/or General Appearance - Male and Female Rats:

Acclimation Period: Weekly.

Dosage Period: Daily.

Maternal Behavior: Days 1, 4, 7, 14 and 21 postpartum. Observed abnormal behavior recorded daily.

Clinical observations may be recorded more frequently than cited above, if deemed appropriate by the Study Director and/or Study Monitor.

Body Weights - Male and Female Rats (recorded and tabulated):

Acclimation Period: Weekly (not tabulated).

Dosage Period: First day of dosage administration and weekly thereafter.

Gestation Period:	Days 0, 7, 14, 21 and 25 (if necessary).
Lactation Period:	Days 1, 4, 7, 14 and 21.
Sacrifice:	Terminal weight.

Feed Consumption Values - Male Rats (recorded and tabulated):

Dosage Period:	Weekly.

Feed Consumption Values - Female Rats (recorded and tabulated):

Precohabitation Period:	Weekly.
Gestation Period:	Days 0, 7, 14, 21 and 25 (if necessary).
Postpartum Period:	Days 1, 4, 7, 10 and 14.

Feed consumption will not be tabulated after day 14 postpartum, when it is expected that pups will begin to consume maternal feed.

Feed Consumption Values - Male and Female Rats:

Feed consumption values may be recorded more frequently than cited above if it is necessary to replenish the feed. During cohabitation, when two rats occupy the same cage with one feed jar, replenishment of the feed jars will be documented. Individual values will not be recorded or tabulated.

Water Consumption Values - Male Rats (recorded and tabulated):

Exposure Period:	At least three times per week (tabulated weekly). At least one of these days will correspond to a day on which body weight and feed consumption values are recorded.

Water Consumption Values - Female Rats (recorded and tabulated):

Precohabitation Period:	At least three times per week (tabulated weekly). At least one of these days will correspond to a day on which body weight and feed consumption values are recorded.
Presumed Gestation Period:	Days 0, 3, 7, 9, 12, 14, 18, 21, 23 and 25 (if required).

Lactation Period:	Days 1, 4, 7, 10 and 14. Water consumption not tabulated after day 14 postpartum, when it is expected that pups will begin to drink maternal water.

Water Consumption Values - Male and Female Rats:

Water consumption values may be recorded more frequently than cited above if it is necessary to replenish the water. During cohabitation, when two rats occupy the same cage with one water bottle, replenishment of the water will be documented when water bottles are filled. Individual values will not be recorded or tabulated.

Estrous Cycling and Mating:

Estrous cycling will be evaluated daily by examination of vaginal cytology beginning 21 days before the scheduled cohabitation period and continuing until spermatozoa are observed in a smear of the vaginal contents and/or a copulatory plug is observed *in situ* during the cohabitation period.

Mating Performance:

Mating will be evaluated daily during the cohabitation period and confirmed by observation of spermatozoa in a smear of the vaginal contents and/or a copulatory plug observed *in situ*.

Duration of Gestation:

The duration of gestation is calculated from day 0 of presumed gestation to the day the first pup is observed.

Fertility Parameters:

Fertility Index (percentage of matings that result in pregnancies). Reported for each sex.

Gestation Index (percentage of pregnancies that result in birth of live litters).

Number and sex of offspring per litter (live and dead pups).

Number of implantation sites.

General condition of dam and litter during the postpartum period.

Litter Data:

Litter size and viability [tabulated at birth (day 1) and on days 4, 7, 14 and 21 postpartum].

Viability Indices (percentages of pups born that survive to days 1 and 4 postpartum).

Lactation Index (percentage of pups alive on day 4 postpartum that survive to day 21 postpartum).

Percent Survival and Sex Ratio [tabulated at birth (day 1) and on days 4, 7, 14 and 21 postpartum].

TESTS, ANALYSES AND MEASUREMENTS - F1 GENERATION:

Viability:

Preweaning Period:	Litters will be observed for dead pups at least twice daily. The pups in each litter will be counted once daily.
Postweaning Period:	Twice daily.

Clinical Observations and/or General Appearance - Male and Female Rats:

Preweaning Period:	Daily.
Postweaning Period:	Daily.
Maternal Behavior:	Days 1, 4, 7, 14 and 21 postpartum. Observed abnormal behavior recorded daily.

Clinical observations may be recorded more frequently than cited above, if deemed appropriate by the Study Director and/or Study Monitor.

Body Weights - Male and Female Rats:

Preweaning Period:	Days 1 (liveborn pups), 4, 7, 14 and 21 postpartum (body weights only).
Postweaning Period:	First day of dosage administration and weekly thereafter.

Gestation Period:	Days 0, 7, 14, 21 and 25 (if necessary).
Lactation Period:	Days 1, 4, 7, 14 and 21.
Sacrifice:	Terminal weight.

Feed Consumption Values - Male and Female Rats:

Postweaning to Cohabitation:	Weekly.
Postcohabitation Period (Male Rats):	Weekly until sacrifice.
Gestation Period (Female Rats):	Days 0, 7, 14, 21 and 25 (if required).
Lactation Period (Female Rats):	Days 1, 4, 7, 10 and 14. Feed consumption not tabulated after day 14 postpartum, when it is expected that pups will begin to consume maternal feed.

Feed consumption values may be recorded more frequently than cited above if it is necessary to replenish the feed. During cohabitation, when two rats occupy the same cage with one feed jar, values will be documented when feed jars are filled. These intervals will not be tabulated.

Water Consumption Values - Male and Female Rats:

Postweaning to Cohabitation:	At least three times per week (tabulated weekly). At least one of these days will correspond to a day on which body weight and feed consumption values are recorded.
Postcohabitation Period (Male Rats):	At least three times per week (tabulated weekly) until sacrifice. At least one of these days will correspond to a day on which body weight and feed consumption values are recorded.
Gestation Period (Female Rats):	Days 0, 3, 7, 9, 12, 14, 18, 21, 23 and 25 (if required).
Lactation Period	

(Female Rats): Days 1, 4, 7, 10 and 14. Water consumption not tabulated after day 14 postpartum, when it is expected that pups will begin to drink maternal water.

Water Consumption Values - Male and Female Rats:

Water consumption values may be recorded more frequently than cited above if it is necessary to replenish the water. During cohabitation, when two rats occupy the same cage with one feed jar, replenishment of the water will be documented when water bottles are filled. Individual values will not be recorded or tabulated.

Postweaning Developmental Observations:

Sexual Maturation:

Female rats will be evaluated for the age of vaginal patency, beginning on day 28 postpartum. Male rats will be evaluated for the age of preputial separation, beginning on day 39 postpartum.

If there is a treatment-related effect of F1 generation sex ratio or sexual maturation, anogenital distance will be measured on day 0 for all F2 generation pups. This study addition will be added via protocol amendment and contract modification upon Sponsor's review and approval.

Estrous Cycling and Mating:

As cited above for P1 generation rats.

Mating Performance:

As cited above for P1 generation rats.

Duration of Gestation:

As cited above for P1 generation rats.

Fertility Parameters:

As cited above for P1 generation rats.

Litter Data:

As cited above for P1 generation rats.

TESTS, ANALYSES AND MEASUREMENTS - F2 GENERATION:

Viability:

Postpartum Period: At least twice daily from birth (at birth, the number and sex of live and stillborn pups will be recorded).

Clinical Observations and/or General Appearance:

Postpartum Period: Daily.

Body Weights (recorded and tabulated):

Postpartum Period: Days 1, 4, 7, 14 and 21.

METHOD OF SACRIFICE, BLOOD COLLECTION AND NECROPSY:

At scheduled sacrifice, the rats will be sacrificed by exsanguination after being anesthesized with carbon dioxide inhalation. Blood will be collected from the inferior vena cava at the time of sacrifice. Blood collections and necropsies will be conducted over the course of three to four days for each interval. Rats will not be fasted prior to sample collection and euthanasia. The blood samples will be obtained prior to necropsy and the time of sample collection will be recorded for each rat. A pathologist will be present for all scheduled necropsies of all adult male rats and female rats with litters. Throughout the euthanasia and necropsy procedures, every effort will be made to avoid inducing stress in the animals since this could affect scheduled hormone evaluations (e.g., no excess noise or radio).

Blood Collection:

At scheduled sacrifice, blood samples will be collected from all P1 and F1 generation rats, and F2 generation rats selected for continued observation, via the inferior vena cava for determination of TSH, T_3 and T_4.

Approximately 3 mL of blood will be collected in a serum separator tube to yield around 1500 µL of serum. The serum will be aliquoted into three vials (approximately 500 µL/vial) for TSH, T_3 and T_4 samples, and frozen on dry ice. Serum will be maintained frozen at -70°C until the conclusion of the study.

Blood samples will be shipped, frozen on dry ice (laboratory and address to be added by amendment). The recipient will be notified in advance of sample shipment.

GROSS NECROPSY AND HISTOLOGY:

The thyroids and parathyroids of P1 and F1 generation rats will be immersed in fixative immediately after collection. Following fixation, the thyroid/parathyroid tissue samples will be carefully trimmed and weighed. When possible, the same technician will perform all trimming of thyroid/parathyroid tissues at least 48 hours post fixation. Organ weights will be recorded.

Adult P1 and F1 generation rats will be necropsied and examined for gross lesions. Gross lesions will be retained in neutral buffered 10% formalin and examined histologically. Tissue trimming and histopathology will be performed under the supervision of or by a Board Certified Veterinary Pathologist.

Gross necropsy will include an initial physical examination of external surfaces and all orifices, as well as an internal examination of tissues and organs *in situ*. The following will be examined: external and internal portions of all hollow organs; the external surfaces of the brain and spinal column, the nasal cavity and neck with associated organs and tissues; the thoracic, abdominal and pelvic cavities with associated organs and tissues; and the musculo/skeletal carcass. The lungs will be perfused with neutral buffered 10% formalin.

For all postweaning rats, the urinary bladder and lungs will be inflated with neutral buffered 10% formalin.

See ATTACHMENT 4 for tissues to be weighed and retained, tissue shipment instructions, and histological evaluations to be conducted; all other tissues will be discarded.

Adult Rats Found Dead or Moribund - P1 and F1 Generation Rats:

Any rats showing signs of severe debility or toxicity, particularly if death appears imminent, will be sacrificed for humane reasons and to prevent loss of tissues through autolysis.

Rats that die or are sacrificed because of moribund condition, abortion or premature delivery will be examined for the cause of death or moribund condition on the day the observation is made. The rats will be examined for gross lesions. Pregnancy status and uterine contents of female rats will be recorded (when appropriate). Aborted fetuses and/or delivered pups will be examined to the extent possible. Uteri of apparently nonpregnant rats will be stained with 10% ammonium sulfide to confirm the absence of implantation sites[5].

Following fixation, the thyroid/parathyroid tissue samples will be carefully trimmed and weighed. When possible, the same technician performing the trimming of

thyroid/parathyroid tissues of the scheduled sacrificed rats will also trim these tissues of rats found dead or sacrificed due to moribund condition, abortion or premature delivery. Organ weights will be recorded.

See ATTACHMENT 4 for tissues to be weighed and retained, and histological evaluations to be conducted; all other tissues will be discarded.

Should postmortem autolysis preclude these evaluations, it will be noted in the necropsy data.

Scheduled Sacrifice and Sperm Evaluations - P1 and F1 Generation Male Rats:

Should a second litter be deemed necessary, male rats will not be sacrificed until after the cohabitation period for the second litter, extending the study by approximately 14 weeks.

To assess the potential toxicity of the test substance on the male reproductive system and to clarify, if present, the possibility of the reversal of any observed adverse effects, the following endpoints will be evaluated:

Organ Weights:

The following organs will be individually weighed: right testis, left testis, left epididymis (whole and cauda), right epididymis, seminal vesicles (with and without fluid) and prostate.

Sperm Evaluations:

A portion of the left cauda epididymis will be used for evaluation of cauda epididymal sperm count, viability and motility. The remaining portion of the epididymis will be retained in neutral buffered 10% formalin for further histological evaluation.

Sperm Motility:

A suspension will be prepared from a portion of the left cauda epididymis and used to prepare two slides. Each slide will be used to determine sperm count, viability and motility. All images will be recorded to an optical disk. All four groups of the P1 and F1 generation male rats will be analyzed.

Morphology:

A suspension prepared from the remaining portion of the left cauda epididymis will be stained with Eosin Y and used to prepare four slides for each rat. Approximately 200 sperm per rat will be morphologically examined at 400 to 1000X magnification. Morphological endpoints to be analyzed will consist predominantly of head and tail abnormalities. All four groups of the P1 and F1 generation male rats will be analyzed.

Sperm Count:

The suspensions remaining after preparation of slides for motility and morphology will be homogenized. Two samples of the resulting homogenate will be placed on separate hemacytometers for examination by two independent observers. Each observer will count sperm heads in five diagonal squares, from left to right.

Spermatid Count:

After being weighed before and after removal of the tunica albuginea, the left testis will be thoroughly homogenized. A sample of the resulting homogenate will be placed on a hemacytometer and the homogenization-resistant spermatid nuclei will be counted in the center squares of each chamber. Two samples will be counted for each rat.

Histology:

The remaining portion of the left epididymis, the right epididymis, prostate and seminal vesicles will be fixed in neutral buffered 10% formalin for possible histological evaluation. The testes will be fixed in Bouin's solution for 48 to 96 hours, rinsed and then retained in neutral buffered 10% formalin for possible histological evaluation.

(The above information on organ weights and histology refers specifically to the evaluation of the male reproductive systems. See ATTACHMENT 4 for a complete list of histology to be conducted.

Scheduled Sacrifice - P1 and F1 Generation Female Rats:

Female rats will be sacrificed after completion of the 21-day postpartum period (should a second litter not be required). The number and distribution of implantation sites will be recorded. Rats that do not deliver a litter will be sacrificed on day 25 of presumed gestation and examined for pregnancy status. Uteri of apparently nonpregnant rats will be stained with 10% ammonium sulfide to confirm the absence of implantation sites[5]. A gross necropsy of the thoracic, abdominal and pelvic viscera will be performed. Female rats without a confirmed mating date that do not deliver a litter will be sacrificed on an estimated day 25 of presumed gestation.

Dams with No Surviving Pups - P1 and F1 Generation Female Rats:

Dams with no surviving pups will be sacrificed after the last pup is found dead or missing, presumed cannibalized. A gross necropsy of the thoracic, abdominal and pelvic viscera will be performed. Postpartum data for these dams will be excluded from summary tables.

F1/F2 Generation Pups Found Dead on Day 1 Postpartum:

Pups that die before examination of the litter for pup viability will be evaluated for vital status at birth. The lungs will be removed and immersed in water. Pups with lungs that sink will be identified as stillborn; pups with lungs that float will be identified as liveborn and to have died shortly after birth. Pups with gross lesions will be preserved in Bouin's solution for possible future evaluation. Should postmortem autolysis preclude these evaluations, it will be noted in the necropsy data.

F1/F2 Generation Pups Found Dead or Moribund on Days 2 to 21 Postpartum:

Pups found dead or sacrificed due to moribund condition will be examined for gross lesions and for the cause of the moribund condition or death. Pups with gross lesions found on days 2 to 4 postpartum will be preserved in Bouin's solution for possible future evaluation; gross lesions of pups found on days 5 to 21 postpartum will be preserved in neutral buffered 10% formalin. Should postmortem autolysis preclude these evaluations it will be noted in the necropsy data.

F1/F2 Generation Pups Not Selected for Continued Observation:

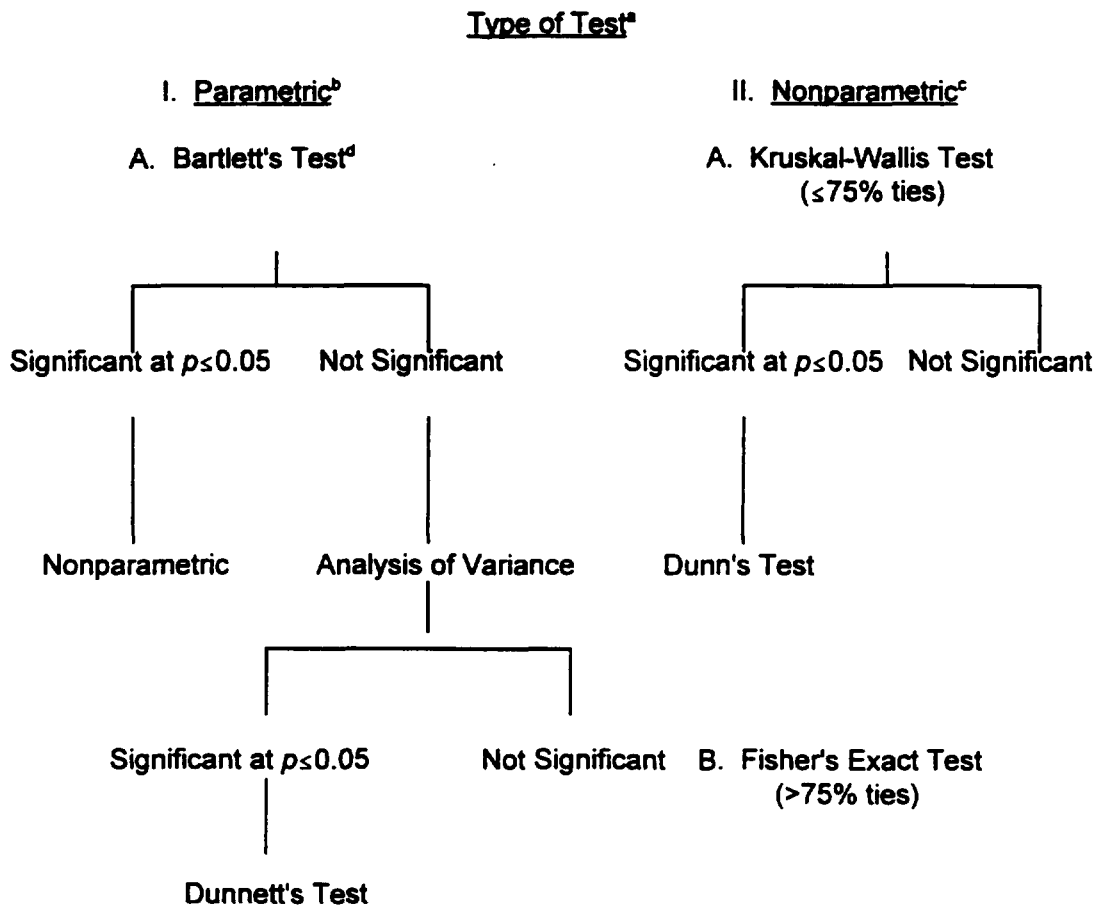
F1 generation pups not selected for continued evaluation and F2 generation pups will be sacrificed on day 21 postpartum. At least three pups per sex per litter (when possible) will be necropsied and examined for gross lesions; gross lesions will be retained in neutral buffered 10% formalin.

Gross necropsy will include an initial physical examination of external surfaces and all orifices, as well as an internal examination of tissues and organs *in situ*. The following will be examined: external and internal portions of all hollow organs; the external surfaces of the brain and spinal column, the nasal cavity and neck with associated organs and tissues; the thoracic, abdominal and pelvic cavities with associated organs and tissues; and the musculo/skeletal carcass. The urinary bladder and lungs will be perfused with neutral buffered 10% formalin. Necropsy will include a single cross-section of the head at the level of the frontal-parietal suture and examination of the cross-sectioned brain for apparent hydrocephaly. Tissue trimming and histopathology will be performed under the supervision of or by a Board Certified Veterinary Pathologist.

See ATTACHMENT 4 for tissues to be weighed and retained, and histological evaluations to be conducted; all other tissues will be discarded. All other pups will be discarded without further evaluation.

PROPOSED STATISTICAL METHODS:

Averages and percentages will be calculated. Litter values will be used where appropriate. Additional procedures and/or analyses may be performed, if appropriate.



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a. Statistically significant probabilities are reported as either $p \leq 0.05$ or $p \leq 0.01$.
b. Used only to analyze data with homogeneity of variance.
c. Proportion data are not included in this category.
d. Test for homogeneity of variance.

DATA ACQUISITION, VERIFICATION AND STORAGE:

Data will be hand- and/or computer-recorded. Records will be reviewed by the Study Director and/or appropriate management personnel within 21 days after generation. All original records will be stored in the archives of the Testing Facility. All original data will be bound and indexed. A copy of all raw data will be supplied to the Sponsor upon request. Preserved tissues will be stored at the Testing Facility at no charge for one year after mailing of the draft final report, after which time the Sponsor will be contacted to determine the disposition of these materials.

RECORDS TO BE MAINTAINED:

Protocol and Amendments.
Test Substance, Carrier and/or Reagent Receipt, Preparation and Use.
Animal Acquisition.
Randomization Schedules.
Mating History.
Treatment (if prescribed by Staff Veterinarian).
General Comments.
Clinical Observations and/or General Appearance.
Body Weights.
Feed Consumption Values.
Water Consumption Values.
Gestation Length.
Litter Observations.
Gross Necropsy Observations.
Organ Weights.
Histopathology Observations.
Study Maintenance (room and environmental records).
Feed, Water and Bedding Analyses.
Packing and/or Shipment Lists.

KEY PERSONNEL:

Executive Director of Research: Mildred S. Christian, Ph.D., ATS
Director of Research: Alan M. Hoberman, Ph.D., DABT
Associate Director of Research and Study Director: Raymond G. York, Ph.D., DABT
Director of Laboratory Operations: John F. Barnett, B.S.
Manager of Study Coordination: Valerie A. Sharper, M.S.
Manager of Animal Operations and Chairperson, Institutional Animal Care and Use Committee: Dena C. Lebo, V.M.D.
Manager of Regulatory Compliance: Kathleen A. Moran, M.S.
Consultant, Veterinary Pathology: W. Ray Brown, D.V.M., Ph.D.

REPORTS:

A comprehensive draft final report will be prepared on completion of the study and will be finalized following consultation with the Sponsor. The report will include the following:

Summary and Conclusion.
Experimental Design and Method.
Evaluation of Test Results.
Appendices: Figures, Summary and Individual Tables Summarizing the Above Data (including absolute and relative thyroid/parathyroid weights), Protocol and Associated Amendments and Deviations, Study Director's GLP Compliance Statement, Histopathology Report, Reports of Supporting Data (if appropriate) and Quality Assurance Unit Statement.

An interim summary report covering the period from initiation of dosage through weaning of the F1 generation will also be issued. This report will be identical in format to the final report with the exception of inclusion of histological findings.

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE STATEMENT:

The procedures described in this protocol have been reviewed by the Testing Facility's Institutional Animal Care and Use Committee. All procedures described in this protocol that involve study animals will be conducted in a manner to avoid or minimize discomfort, distress or pain to the animals.

The Sponsor's signature below documents the fact that this is not an unnecessarily duplicative study, and that no alternative (*in vitro*) procedures were available for meeting the stated purposes of the study.

REFERENCES:

1. Christian, M.S. and Voytek, P.E. (1982). *In Vivo Reproductive and Mutagenicity Tests*. Environmental Protection Agency, Washington, D.C. National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

2. Christian, M.S. (1984). Reproductive toxicity and teratology evaluations of naltrexone (Proceedings of Naltrexone Symposium, New York Academy of Sciences, November 7, 1983), J. Clin. Psychiat. 45(9):7-10.

3. Lang, P.L. (1988). *Embryo and Fetal Developmental Toxicity (Teratology) Control Data in the Charles River Crl:CD®BR Rat*. Charles River Laboratories, Inc., Wilmington, MA 01887-0630. (Data base provided by Argus Research Laboratories, Inc.)

4. Institute of Laboratory Animal Resources (1996). *Guide for the Care and Use of Laboratory Animals*. National Academy Press, Washington, D.C.

5. Salewski, E. (1964). Färbemethode zum makroskopischen Nachweis von Implantationsstellen am Uterus der Ratte. Arch. Pathol. Exp. Pharmakol. 247:367.

6. Snedecor, G.W. and Cochran, W.G. (1967). Variance test for homogeneity of the binomial distribution. *Statistical Methods*, 6th Edition, Iowa State University Press, Ames, pp. 240-241.

7. Sokal, R.R. and Rohlf, F.J. (1969). Bartlett's test of homogeneity of variances. *Biometry*, W.H. Freeman and Co., San Francisco, pp. 370-371.

8. Snedecor, G.W. and Cochran, W.G. (1967). Analysis of Variance. *Statistical Methods*, 6th Edition, Iowa State University Press, Ames, pp. 258-275.

9. Dunnett, C.W. (1955). A multiple comparison procedure for comparing several treatments with a control. J. Amer. Stat. Assoc. 50:1096-1129.

10. Sokal, R.R. and Rohlf, F.J. (1969). Kruskal-Wallis Test. *Biometry*, W.H. Freeman and Co., San Francisco, pp. 388-389.

11. Dunn, O.J. (1964). Multiple comparisons using rank sums. Technometrics 6(3):241-252.

12. Siegel, S. (1956). *Nonparametric Statistics for the Behavioral Sciences*, McGraw-Hill, New York, pp. 96-104.

PROTOCOL APPROVAL:

FOR THE TESTING FACILITY

Alan M. Hoberman, Ph.D., DABT
Director of Research

31-Dec-97
Date

Raymond G. York, Ph.D., DABT
Associate Director of Research and
Study Director

31-Dec-97
Date

Dena C. Lebo, V.M.D.
Chairperson, Institutional Animal Care and
Use Committee

31 Dec 97
Date

FOR THE SPONSOR

Michael F. Girard
Perchlorate Study Group Representative
Study Monitor

14 JAN 98
Date

Michael L. Dourson, Ph.D., DABT
Toxicology Excellence for Risk Assessment (TERA)
Sponsor's Representative

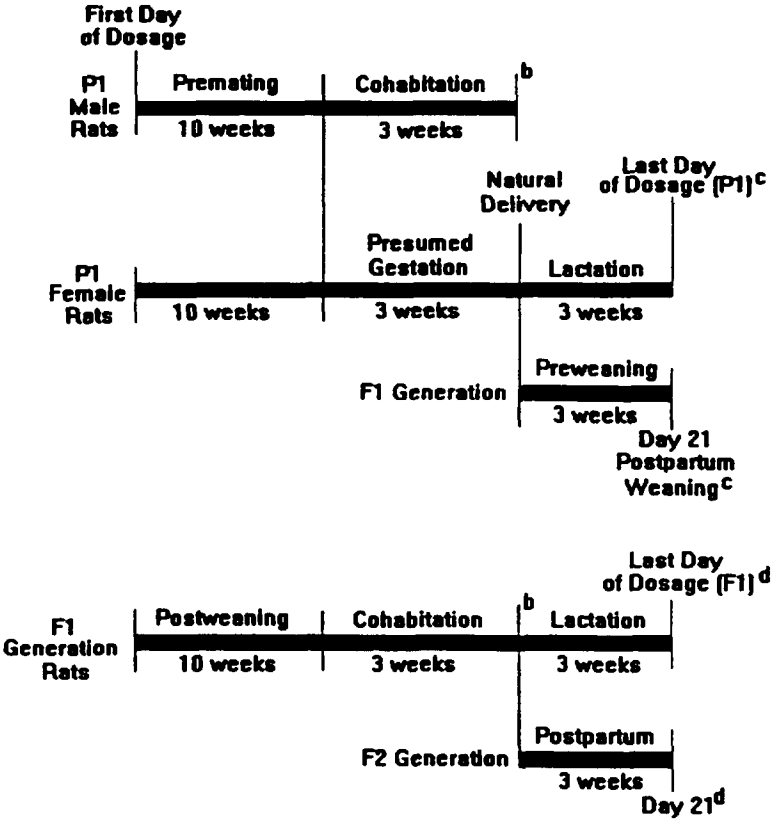
1·6·98
Date

ATTACHMENT 1

SCHEMATIC OF STUDY DESIGN AND STUDY SCHEDULE

STUDY SCHEMATIC

TWO-GENERATION REPRODUCTION STUDY[a]



▬ = Dosage Period

a = For additional details see "Tests, Analyses and Measurements" section of protocol
b = Male rats sacrificed after determination of sufficient number of pregnancies
c = P1 generation female rats sacrificed
d = F1 generation dams and F2 generation litters sacrificed

SCHEDULE[a,b]

06 JAN 98	P1 Generation Animal Receipt - Acclimation Begins
12 JAN 98	Start of Exposure Period - P1 Generation Rats
23 MAR 98 PM - 06 APR 98 AM	P1 Generation Cohabitation Period (After 70 days of exposure to the test substance).
24 MAR 98	First Possible Day 0 of Presumed Gestation.
06 APR 98	Last Possible Day 0 of Presumed Gestation.
14 APR 98	First Possible Delivery - F1 Generation Litters (Day 21 of presumed gestation).
01 MAY 98	Last Possible Delivery - F1 Generation Litters (Day 25 of presumed gestation).
18 APR 98	First Possible Day 25 of Presumed Gestation Female Rat Sacrifice.
01 MAY 98	Last Possible Day 25 of Presumed Gestation Female Rat Sacrifice.
20 APR 98	Scheduled Sacrifice - P1 Generation Male Rats (Earliest possible date).
04 MAY 98	First Possible Day-21 Postpartum Weaning (Sacrifice of P1 generation dams and F1 generation pups not selected for continued observation).
21 MAY 98	Last Possible Day-21 Postpartum Weaning.

---

a. The study initiation date is the day the Study Director signs the protocol.

b. The in-life portion of the study will require approximately 42 weeks. If results warrant, this study may be extended to include a third generation; such a study extension would be conducted according to the procedures described previously for the F1 and F2 generations.

11 MAY 98	F1 Generation Postweaning Observations Begin (Details of tests cited in protocol).
25 SEP 98	Interim Status Report - Draft Mail Date.

Estimated Dates[a]

04 MAY 98	Start of Exposure Period - F1 Generation Rats
03 AUG 98 PM - 17 AUG 98 AM	F1 Generation Cohabitation Period (After 70 days of exposure to the test substance).
04 AUG 98	First Possible Day 0 of Presumed Gestation.
17 AUG 98	Last Possible Day 0 of Presumed Gestation.
25 AUG 98	First Possible Delivery - F2 Generation Litters (Day 21 of presumed gestation).
07 SEP 98	Last Possible Delivery - F2 Generation Litters (Day 25 of presumed gestation).
29 AUG 98	First Possible Day 25 of Presumed Gestation Female Rat Sacrifice.
07 SEP 98	Last Possible Day 25 of Presumed Gestation Female Rat Sacrifice.
31 AUG 98	F1 Generation Male Rats Sacrificed after Day 14 of Cohabitation Period - Earliest Approximate Date.
14 SEP 98	First Possible Day 21 Postpartum (F1 generation dams and F2 generation litters sacrificed).
27 SEP 98	Last Possible Day 21 Postpartum.
13 JAN 99	Draft Final Report (Including histopathology).

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a. All of these dates are not possible to accurately schedule because they are dependent upon the timing of mating of the P1 generation and the times litters are delivered and weaned.

ATTACHMENT 2

MATERIAL SAFETY DATA SHEET

PRODUCT #: 208507 NAME: AMMONIUM PERCHLORATE, 99.8%
MATERIAL SAFETY DATA SHEET, Valid 5/97 - 7/97
Printed Monday, July 14, 1997 9:22AM

Sigma Chemical Co.
P.O. Box 14508
St. Louis, MO 63178
Phone: 314-771-5765

Aldrich Chemical Co., Inc.
1001 West St. Paul
Milwaukee, WI 53233
Phone: 414-273-3850

Fluka Chemical Corp.
1001 West St. Paul
Milwaukee, WI 53233
Phone: 414-273-3850

SECTION 1. - - - - - - - - - - CHEMICAL IDENTIFICATION- - - - - - - - - -
CATALOG #: 208507
NAME: AMMONIUM PERCHLORATE, 99.8%
SECTION 2. - - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -
CAS #: 7790-98-9
MF: H4CLNO4
EC NO: 232-235-1
SYNONYMS
AMMONIUM PERCHLORATE (DOT) * UN0402 (DOT) * UN1442 (DOT) *
SECTION 3. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - -
LABEL PRECAUTIONARY STATEMENTS
EXPLOSIVE
HARMFUL
HEATING MAY CAUSE AN EXPLOSION.
CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
HARMFUL IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
STRONG OXIDIZER.
KEEP AWAY FROM HEAT
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
SECTION 4. - - - - - - - - - - FIRST-AID MEASURES- - - - - - - - - - -
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
DISCARD CONTAMINATED CLOTHING AND SHOES.
SECTION 5. - - - - - - - - - - FIRE FIGHTING MEASURES - - - - - - - - - -
EXTINGUISHING MEDIA
WATER SPRAY.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.
STRONG OXIDIZER.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
MAY EXPLODE WHEN HEATED.
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
SECTION 6. - - - - - - - - - ACCIDENTAL RELEASE MEASURES- - - - - - - - -

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER AND HOLD FOR WASTE DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - - - - - - HANDLING AND STORAGE- - - - - - - - - - -

REFER TO SECTION 8.

ADDITIONAL INFORMATION

MIXTURES OF AMMONIUM PERCHLORATE WITH SULFUR, ORGANIC MATERIALS, FINELY DIVIDED METALS ARE EXPLOSIVE AND HAVE A SHOCK-SENSITIVITY EQUIVALENT TO PICRIC ACID. IT IS INCOMPATIBLE WITH ALUMINUM, COPPER, CARBON, POTASSIUM PERMANGANATE, POTASSIUM PERIODATE, POTASSIUM DICHROMATE, CADMIUM OXIDE, COPPER OXIDE, ZINC OXIDE, IRON OXIDE, DICHROMIUM TRIOXIDE, COPPER CHROMITE, METAL PERCHLORATES ALL OF WHICH CONSIDERABLY LOWER ITS EXPLOSION TEMPERATURE OF 440 C AND INCREASE ITS SENSITIVITY TO FRICTION. MIXTURES WITH PHOSPHOROUS ARE SHOCK-SENSITIVE. REACTS VIOLENTLY WITH CHLORINE OR CHLORINE DIOXIDE, EXPLOSIONS MAY RESULT.

SECTION 8. - - - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
HARMFUL SOLID.
IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - - -

APPEARANCE AND ODOR

WHITE POWDER

PHYSICAL PROPERTIES

SPECIFIC GRAVITY: 1.950

SECTION 10. - - - - - - - - -STABILITY AND REACTIVITY - - - - - - - - -

INCOMPATIBILITIES

STRONG REDUCING AGENTS
STRONG ACIDS
HEAT-SENSITIVE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

AMMONIA

SECTION 11. - - - - - - - - - TOXICOLOGICAL INFORMATION - - - - - - - -

ACUTE EFFECTS

HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF INHALED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

RTECS #: SC7520000

PERCHLORIC ACID, AMMONIUM SALT

TOXICITY DATA

ORL-RAT LD50:4200 MG/KG	GISAAA 28(8),8,63
ORL-MUS LD50:1900 MG/KG	GISAAA 28(8),8,63
ORL-RBT LD50:1900 MG/KG	GISAAA 28(8),8,63
ORL-GPG LD50:3310 MG/KG	GISAAA 28(8),8,63

TARGET ORGAN DATA

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (EXCITEMENT)
BEHAVIORAL (ATAXIA)
BEHAVIORAL (COMA)
LUNGS, THORAX OR RESPIRATION (DYSPNAE)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12. - - - - - - - - - - ECOLOGICAL INFORMATION - - - - - - - - - -

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - - - - - - DISPOSAL CONSIDERATIONS - - - - - - - - -

FOR SMALL QUANTITIES: CAUTIOUSLY ADD TO A LARGE STIRRED EXCESS OF WATER. ADJUST THE PH TO NEUTRAL, SEPARATE ANY INSOLUBLE SOLIDS OR LIQUIDS AND PACKAGE THEM FOR HAZARDOUS-WASTE DISPOSAL. FLUSH THE AQUEOUS SOLUTION DOWN THE DRAIN WITH PLENTY OF WATER. THE HYDROLYSIS AND NEUTRALIZATION REACTIONS MAY GENERATE HEAT AND FUMES WHICH CAN BE CONTROLLED BY THE RATE OF ADDITION.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - - - - - - TRANSPORT INFORMATION - - - - - - - - -

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - - - - - - REGULATORY INFORMATION - - - - - - - - -

EUROPEAN INFORMATION

EC INDEX NO: 017-009-00-0
EXPLOSIVE
HARMFUL
R 9
EXPLOSIVE WHEN MIXED WITH COMBUSTIBLE MATERIAL.
R 44
RISK OF EXPLOSION IF HEATED UNDER CONFINEMENT.
S 25
AVOID CONTACT WITH EYES.
S 16
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
S 27
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
S 24/25
AVOID CONTACT WITH SKIN AND EYES.

REVIEWS, STANDARDS, AND REGULATIONS

OEL-MAK
NOHS 1974: HZD 80353; NIS 2; TNF 101; NOS 3; TNE 1062
NOES 1983: HZD 80353; NIS 1; TNF 7; NOS 1; TNE 1445; TFE 230
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

SECTION 16. - - - - - - - - - - OTHER INFORMATION- - - - - - - - - - -

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA, ALDRICH, FLUKA SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR

PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.
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FLUKA CHEMIE AG
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ATTACHMENT 3

TEST SUBSTANCE PREPARATION PROCEDURE

ATTACHMENT 3

TEST SUBSTANCE PREPARATION PROCEDURE

Test Substance: Ammonium Perchlorate
Vehicle: R.O. deionized water

A. Purpose:

The purpose of this procedure is to provide a method for the preparation of dosage solutions of ammonium perchlorate for oral administration to rats on Argus Study 1416-001.

B. General Information:

1. All solution containers will be labeled and color-coded. Each label will specify the protocol number, test substance identification, Argus batch number, concentration, dosage level, preparation date, expiration date and storage conditions.

2. Solutions will be prepared:

__ Daily _X_ Weekly __ For _ days of use
__ As required by Protocol __ By Sponsor

3. Solutions will be prepared from 1 stock solution (50 mg/mL, w:v) and diluted to each respective concentration. Stock solution will be prepared at least once. NOTE: Stock solution will be stored refrigerated and may appear cloudy.

4. Safety:

_X_ Gloves, lab coat, goggles or safety glasses and faceshield
__ Dust-Mist Respirator
_X_ Half-Face Respirator or/Positive Pressure Hood
__ Full-Face Respirator/Positive Pressure Hood
_X_ Tyvek Apron and Sleeves or Tyvek suit
_X_ Prepared in a Fume Hood
_X_ Explosive (avoid contact with metals or reducing agents)

5. Dosage solutions adjusted for % Purity or Correction Factor:

__ Yes _X_ No (Calculations based on 100%)
__ % Activity ___% Purity __ Correction Factor

6. Sampling requirements: Cited in protocol.

TEST SUBSTANCE PREPARATION PROCEDURE

7. Storage: Cited in protocol.

NOTE: Prior to test substance preparation, accurately precalibrate the preparation vessels. Measure the required amount of the vehicle into a graduated cylinder, and pour the required amount of vehicle into the vessel. Carefully mark the meniscus on each vessel.

C. Stock Solution Preparation

1. Prepare a stock solution of test substance by accurately weighing the required amount of test substance to an appropriately labeled container. (see PREPARATION CALCULATIONS).

2. Add approximately 80% of vehicle to the container (see PREPARATION CALCULATIONS).

3. Q.S. to final volume with vehicle (see PREPARATION CALCULATIONS).

4. Add a stirbar to the container, place on a magnetic stirplate and agitate until test article has mixed.

D. Dosage Solution Preparation:

1. Measure the required amount of test substance stock solution that is needed for the appropriate dosage level into an appropriately sized, labeled container (see PREPARATION DILUTION CALCULATIONS).

2. Add approximately 80% of vehicle to the container (see PREPARATION DILUTION CALCULATIONS).

3. Q.S. to final volume with vehicle (see PREPARATION DILUTIONS CALCULATIONS).

4. Add a stirbar to the container, place on a magnetic stirplate and agitate until test article has mixed.

5. Cover and mix by inversion.

6. Repeat steps (1) through (5) for each concentration.

ATTACHMENT 3

TEST SUBSTANCE PREPARATION PROCEDURE

Written By: _____

Approved by: _____ **Date:** 31-DEC-97

Clarification: X **No** ___ **Yes [see attached clarification form]**

Initials/Date: _____ 10-13-98

ATTACHMENT 4

TISSUES TO BE WEIGHED AND RETAINED FOR HISTOPATHOLOGICAL EVALUATION

TISSUES TO BE WEIGHED AND RETAINED FOR POSSIBLE EXAMINATION

P1/F1 Generation:

The following tissues or representative samples will be collected from all P1 and F1 generation parental male and female rats. Tissues will be retained in neutral buffered 10% formalin.

Adrenal Glands
Aorta
Bone Marrow (femur or sternum)
Brain (three levels)
Cervix/Vagina
Epididymides
Esophagus
Eyes
Femur (including articular surface)
Heart
Intestine, Large (cecum, colon, rectum)
Intestine, Small (duodenum, jejunum, ileum)
Kidneys
Liver
Lungs and Trachea
Lymph Nodes (mandibular, mesenteric)
Mammary Gland
Ovaries
Pancreas
Pituitary
Prostate
Salivary Gland
Sciatic Nerve
Seminal Vesicles
Skeletal Muscle (quadriceps, femoris)
Skin (abdominal)
Spinal Cord (cervical, thoracic, lumbar)
Spleen
Stomach
Thymus
Testes*
Thyroid and Parathyroid
Urinary Bladder
Uterus
Zymbal's Gland

*Testes will be fixed in Bouin's solution for 48 to 96 hours before being transferred to and retained in neutral buffered 10% formalin.

Organ-to-body weight and organ-to-brain weight ratios will be calculated. The following organs will be weighed prior to fixation:

Adrenal Glands (weighed as pairs)
Brain
Epididymides
Heart
Kidneys (weighed as pairs)
Liver
Ovaries (weighed as pairs)
Pituitary
Spleen
Testes

The following organs will be weighed after fixation:

Thyroid/parathyroid

Histological examination will be performed for the control and high dosage groups of the P1 and F1 generation parental male and female rats. If lesions attributed to the test article are observed in the rats exposed to the high test article concentrations, the same organs will be examined histologically in the rats exposed to the lower test article concentrations.

All gross lesions will be examined histologically. Should results from the control and high dosage groups warrant examination of the lower dosage groups and conduct of the quantitative evaluation, scheduled report dates will be adjusted accordingly. No additional costs will be incurred should these evaluations be required.

F1 and F2 Weanlings:

The following tissues will be collected from three pups/sex/litter from the unselected F1 generation weanlings and the F2 generation weanlings.

Adrenal Glands	Liver
Brain	Spleen
Thyroid/Parathyroid	Kidneys

The following organs will be weighed prior to fixation:

Brain	Spleen
Thymus	

Tissue samples will be shipped to the address cited below for histological analysis:

W. Ray Brown, D.V.M., Ph.D.
Veterinary Pathologist
Research Pathology Services, Inc.
438 E. Butler Avenue
New Britain, PA 18901
Telephone: (215) 345-7070
Telefax: (215) 345-4326

The recipient will be notified in advance of sample shipment.

Argus Research Laboratories, Inc.
905 Sheehy Drive, Building A
Horsham, Pennsylvania 19044
T: (215) 443-8710 F: (215) 443-8587

PROTOCOL 1416-001

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

Amendment 1 - May 5, 1998

---

1. Method of Sacrifice, Blood Collection and Necropsy (page 17 of the protocol):

   A pathologist will be present for the first day of scheduled necropsies of all adult male and adult female rats with litters, rather than on all days of scheduled necropsies. The pathologist will review necropsy procedures and tissue and data collection methods at that time.

   Reason for Change:

   It is not necessary for the pathologist to be present for all scheduled necropsies. The pathologist will be "on-call" for the remaining P1 generation necropsies.

2. Sperm Evaluation (page 19 of the protocol):

   Replacement paragraph is noted below:

   A portion of the left cauda epididymis will be used for evaluation of cauda epididymal sperm count and motility. The remaining portion of the epididymis will be retained in neutral buffered 10% formalin for further histological evaluation. All P1 and F1 generation male rats at scheduled sacrifice will be analyzed.

   Reason for Change:

   This change corrects the protocol.

3. Sperm Motility (page 19 of the protocol):

Replacement paragraph is noted below:

The left cauda epididymis will be used to prepare a sample for evaluation of sperm motility through a swim out method. Slides prepared will be analyzed by the Hamilton Thorne Computer Assisted Sperm Analyzer (CASA) until a minimum of 200 sperm cells or twenty fields have been evaluated. All images produced during analysis will be saved to an optical disk and retained as raw data.

Reason for Change:

This change corrects the protocol.

4. Sperm Count (page 20 of the protocol):

Replacement paragraph is noted below:

The suspension remaining after the preparation of slides for morphology for each rat will be homogenized. A sample from the resulting homogenate will be stained with an IDENT Stain Kit from Hamilton Thorne Research and a slide will be prepared for analysis by the Hamilton Thorne CASA. Ten fields will be analyzed from each sample to determine cauda epididymal sperm concentration (sperm per gram of tissue weight). All images produced during analysis will be saved to an optical disk and retained as raw data.

Reason for Change:

This change corrects the protocol.

5. Spermatid Count (page 20 of the protocol):

Replacement paragraph is noted below:

The left testis will be weighed (both before and after removal of the tunica albuginea) and then homogenized. A sample from the resulting homogenate will be stained with an IDENT Stain Kit from Hamilton Thorne Research and a slide will be prepared for analysis by the Hamilton Thorne CASA. Ten fields will be analyzed to determine testicular spermatid concentration (spermatids per gram of tissue weight). All images produced during analysis will be saved to an optical disk and retained as raw data.

Reason for Change:

This change corrects the protocol.

Alan M. Hoberman, Ph.D., DABT Date
Director of Research

Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

for Dena C. Lebo, V.M.D. Date
Chairperson, Institutional Animal Care
and Use Committee

Michael F. Girard Date
Perchlorate Study Group Representative
Study Monitor

Michael L. Dourson, Ph.D., DABT Date
Toxicology Excellence for Risk Assessment (TERA)
Sponsor's Representative

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905 Sheehy Drive, Building A
Horsham, Pennsylvania 19044
T: (215) 443-8710 F: (215) 443-8587

PROTOCOL 1416-001

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

Amendment 2 - May 5, 1998

---

1. F1/F2 Generation Pups Not Selected for Continued Observation (page 21 of the protocol):

   The six F1 generation pups per litter not selected for continued evaluation but selected for F1 weanling necropsy (see Attachment 4) will also have blood sample collections and thyroids weighed. At sacrifice, the blood will be collected via the inferior vena cava. Whole blood samples, pooled by sex per litter, will be collected into serum separator tubes and centrifuged. The resulting sera samples will be aliquotted into three separate vials (approximately 500 µl of sera per aliquot), immediately frozen on dry ice and maintained frozen at the Testing Facility until shipment for possible analysis by the Sponsor. Following fixation, the thyroid/parathyroid tissue samples will be carefully trimmed and weighed. When possible, the same technician will perform all trimming of the thyroid/parathyroid tissues at least 48 hours post fixation.

   Reason for Change:

   This change was made at the request of the Sponsor to possibly utilize tissues that would normally be discarded.

2. Study Schedule (page 3 of ATTACHMENT 1):

   The mail date for the interim report will be September 11, 1998, rather than September 25, 1998.

Reason for Change:

This change revises the protocol schedule.

05-May-98

Alan M. Hoberman, Ph.D., DABT Date
Director of Research

05-MAY-98

Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

05-MAY-98

Dena C. Lebo, V.M.D. Date
Chairperson, Institutional Animal Care
and Use Committee

13 MAY 98

Michael F. Girard Date
Perchlorate Study Group Representative
Study Monitor

5.6.98

Michael L. Dourson, Ph.D., DABT Date
Toxicology Excellence for Risk Assessment (TERA)
Sponsor's Representative

PRIMEDICA

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Telefax: (215) 443-8587

PROTOCOL 1416-001

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

Amendment 3 - 27 August 1998

1. Tissues To Be Weighed and Retained for Possible Examination (page 2 of Attachment 4):

The following organs from the three F1 generation pups/sex/litter not selected for continued observation and three F2 generation weanlings/sex/litter will be retained for possible future histopathological evaluation:

Adrenal Glands	Liver	Thymus
Brain	Spleen	
Thyroid/Parathyroid	Kidneys	

Should treatment related changes be observed in any of these organs, then the control and high dosage group organs will be examined histopathologically. Should histopathological results from the control and high dosage groups demonstrate treatment-related changes, then these organs shall be examined at all remaining dosages. In addition, the thymus was added as a tissue to be weighed and retained for possible future histopathological evaluation.

Reason for Change:

This change clarifies the protocol.

27 Aug 98
Alan M. Hoberman, Ph.D., DABT Date
Director of Research

27-AUG-98
Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

27 Aug 98
Dena C. Lebo, V.M.D. Date
Chairperson, Institutional Animal Care
and Use Committee

9.4.98
Michael F. Girard Date
Perchlorate Study Group Representative
Study Monitor

8.31.98
Michael L. Dourson, Ph.D., DABT Date
Toxicology Excellence for Risk Assessment (TERA)
Sponsor's Representative

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Telefax: (215) 443-8587

PROTOCOL 1416-001

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

Amendment 4 - 14 October 1998

---

1. Blood Collection (page 17 of the protocol):

[Effective Date: 30 September 1998] Serum samples collected from all P1 generation adults and F1 generation pups will be sent for TSH, T_3 and T_4 determination to:

AniLytics, Inc.
200 Girard Street
Suite 200
Gaithersburg, Maryland 20877

Reason for Change:

This information was to be added to the protocol by amendment.

Alan M. Hoberman, Ph.D., DABT Date
Director of Research

Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

Dena C. Lebo, V.M.D. Date
Chairperson, Institutional Animal Care
and Use Committee

Michael F. Girard Date
Perchlorate Study Group Representative
Study Monitor

10.15.98

Michael L. Dourson, Ph.D., DABT Date
Toxicology Excellence for Risk Assessment (TERA)
Sponsor's Representative

PRIMEDICA

Argus Research Laboratories, Inc.
905 Sheehy Drive, Building A
Horsham, PA 19044
Telephone: (215) 443-8710
Telefax: (215) 443-8587

PROTOCOL 1416-001

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

Amendment 5 - 11 January 1999

---

1. Blood Collection (page 17 of the protocol):

[Effective Date: 18 December 1998] Serum samples collected from all F1 generation adults and F2 generation pups will be sent for TSH, T_3 and T_4 determination to:

AniLytics, Inc.
200 Girard Street
Suite 200
Gaithersburg, Maryland 20877

Reason for Change:

This information was to be added to the protocol by amendment.

for Alan M. Hoberman, Ph.D., DABT Date
Director of Research

Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

Dena C. Lebo, V.M.D. Date
Chairperson, Institutional Animal Care
and Use Committee

Michael F. Girard Date
Perchlorate Study Group Representative
Study Monitor

Michael L. Dourson, Ph.D., DABT Date
Toxicology Excellence for Risk Assessment (TERA)
Sponsor's Representative

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Argus Research Laboratories, Inc.
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PROTOCOL 1416-001

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS

Amendment 6 - 1 February 1999

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1. Tissues To Be Weighed and Retained For Histopathological Evaluation (Attachment 4 of the protocol):

   [Effective Date: 6 January 1999]
   P1/F1 Generation:

   All tissues listed in Attachment 4 for both male and female rats in the control and high dosage groups will be processed and histopathologically evaluated.

   F1/F2 Weanlings:

   The thyroid from one male and one female pup/weanling per litter from each of the four dosage groups will be processed and histopathologically evaluated.

   Reason for Change:

   Clarification of tissues to be examined.

2. Schedule (page 3 of Attachment 1 to the protocol):

   [Effective Date: 18 January 1999] The Draft Final Report (including histopathology and thyroid hormone analysis) mail date will be 5 March 1999, rather than 27 January 1999.

Reason for Change:

The draft final report day was revised to include additional histopathology and thyroid hormone analysis data requested by the Sponsor.

01-FEB-99

for Alan M. Hoberman, Ph.D., DABT Date
Director of Research

01-FEB-99

Raymond G. York, Ph.D., DABT Date
Associate Director of Research and
Study Director

Theresa H. Woodard 01 Feb 99

for Dena C. Lebo, V.M.D. Date
Chairperson, Institutional Animal Care
and Use Committee

2/12/99

Michael F. Girard Date
Perchlorate Study Group Representative
Study Monitor

Feb 2, 1999

Michael L. Dourson, Ph.D., DABT Date
Toxicology Excellence for Risk Assessment (TERA)
Sponsor's Representative

APPENDIX G

DEVIATIONS FROM THE PROTOCOL AND THE STANDARD OPERATING PROCEDURES OF THE TESTING FACILITY

DEVIATIONS FROM THE PROTOCOL AND THE STANDARD OPERATING PROCEDURES OF THE TESTING FACILITY

1. Water bottles of P1 and F1 generation male and female rats were not removed from the cages until the day of sacrifice, rather than the day before sacrifice. This deviation did not adversely affect the outcome or interpretation of the study because an additional day of exposure to the test substance would not affect any parameters evaluated at necropsy.

2. On 1 May 1998 (day 25 of presumed gestation), the thyroids and parathyroids were inadvertently not saved for the following P1 generation female rats: rats 3832 and 3839 in the 0.3 mg/kg/day dosage group and rat 3871 in the 3.0 mg/kg/day dosage group. This deviation did not adversely affect the outcome or interpretation of the study because this represents a small loss of data.

3. On 29 May 1998 (DS 138), the cauda epididymal sperm suspension for P1 generation 3.0 mg/kg/day dosage group male rat 3687 was homogenized before 0.5 mL was removed for evaluation of morphology. No morphology slides could be made for this rat. This deviation did not adversely affect the outcome or interpretation of the study because sufficient morphology slides were evaluated for other rats in this group to accurately evaluate this parameter.

4. During necropsy, the thyroids were inadvertently not retained for the following F1 generation pups.

Dosage Group	Rat Number	Pup Number
I	3829	1
II	3843 3850	4, 15 10
III	3864 3880	5, 14 12
IV	3907	4

This deviation did not adversely affect the outcome or interpretation of the study because a sufficient number of thyroids were retained for evaluation.

All deviations are available in the raw data.

09-APR-99

Raymond G. York, Ph.D., DABT Date
Associate Director of Research
and Study Director

APPENDIX H

ENVIRONMENTAL AND HUSBANDRY REPORTS

ARGUS

Temperature and Relative Humidity Report
Location: Room 01

Protocol Number: 1416-001

Range of Dates: 06-Jan-1998 12:12 to 25-Sep-1998 16:30

	Temperature		Relative Humidity	
Target Range:	64°F to 79°F		30% to 70%	
Species: Rat				
Total Number of Days:	263		263	
Total Number of Hours:	6291.99		6291.99	
Total Number of Data Points:	6263		6263	
Mean (± SD):	69.3	(± 0.9)	55.0	(± 8.4)
Maximum:	77.9		77.6	
Median:	69.3		56.5	
Minimum:	54.3		25.4	
Number of Points in Range (%):	6253	(99.8)	6173	(98.6)
Number of Points High (%):	0	(0.0)	77	(1.2)
Number of Points Low (%):	10	(0.2)	13	(0.2)

Report Generated: 02-Oct-1998 at 07:53

COMMENTS: _____

_____

_____

_____

REVIEWED BY: _____ **DATE:** 10/2/98

Cumulative by Location (v04.01.97)

ARGUS

Temperature and Relative Humidity Report
Location: Room 04

Protocol Number: 1416-001

Range of Dates: 13-Apr-1998 16:30 to 29-May-1998 16:14

	Temperature		Relative Humidity	
Target Range:	64°F to 79°F		30% to 70%	
Species: Rat				
Total Number of Days:	47		47	
Total Number of Hours:	1103.09		1103.09	
Total Number of Data Points:	1093		1093	
Mean (± SD):	69.5	(± 0.7)	52.9	(± 5.7)
Maximum:	72.9		64.0	
Median:	69.5		54.3	
Minimum:	68.0		30.0	
Number of Points in Range (%):	1093	(100.0)	1093	(100.0)
Number of Points High (%):	0	(0.0)	0	(0.0)
Number of Points Low (%):	0	(0.0)	0	(0.0)

Report Generated: 17-Feb-1999 at 11:48

COMMENTS: _____

REVIEWED BY: John F. Barnett **DATE:** 2/17/99

Cumulative by Location (v04.01.97)

ARGUS

Temperature and Relative Humidity Report
Location: Room 03

Protocol Number: 1416-001

Range of Dates: 05-May-1998 11:22 to 10-May-1998 10:59

	Temperature		Relative Humidity	
Target Range:	64°F to 79°F		30% to 70%	
Species: Rat				
Total Number of Days:	6		6	
Total Number of Hours:	119.25		119.25	
Total Number of Data Points:	120		120	
Mean (± SD):	65.8	(± 0.7)	60.7	(± 4.6)
Maximum:	67.9		69.8	
Median:	65.7		60.4	
Minimum:	64.2		53.8	
Number of Points in Range (%):	120	(100.0)	120	(100.0)
Number of Points High (%):	0	(0.0)	0	(0.0)
Number of Points Low (%):	0	(0.0)	0	(0.0)

Report Generated: 02-Oct-1998 at 09:09

COMMENTS: _____

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REVIEWED BY: _____ **DATE:** 10/2/98

Cumulative by Location (v04.01.97)

ARGUS

Temperature and Relative Humidity Report
Location: Room 07

Protocol Number: 1416-001

Range of Dates: 17-Aug-1998 16:05 to 27-Aug-1998 14:00

	Temperature		Relative Humidity	
Target Range:	64°F to 79°F		30% to 70%	
Species: Rat				
Total Number of Days:	11		11	
Total Number of Hours:	237.49		237.49	
Total Number of Data Points:	238		238	
Mean (± SD):	67.4	(± 0.4)	61.3	(± 4.3)
Maximum:	68.5		70.3	
Median:	67.3		60.9	
Minimum:	66.6		53.2	
Number of Points in Range (%):	238	(100.0)	237	(99.6)
Number of Points High (%):	0	(0.0)	1	(0.4)
Number of Points Low (%):	0	(0.0)	0	(0.0)

Report Generated: 17-Feb-1999 at 11:43

COMMENTS: _____

REVIEWED BY: John J Barnett J **DATE:** 2/17/99

Cumulative by Location (v04.01.97)

ARGUS

Temperature and Relative Humidity Report
Location: Room 06

Protocol Number: 1416-001

Range of Dates: 27-Aug-1998 14:00 to 13-Sep-1998 14:00

	Temperature		Relative Humidity	
Target Range:	64°F to 79°F		30% to 70%	
Species: Rat				
Total Number of Days:	18		18	
Total Number of Hours:	407.76		407.76	
Total Number of Data Points:	408		408	
Mean (± SD):	69.8	(± 0.6)	58.1	(± 3.7)
Maximum:	71.8		66.9	
Median:	69.9		58.0	
Minimum:	67.7		46.8	
Number of Points in Range (%):	408	(100.0)	408	(100.0)
Number of Points High (%):	0	(0.0)	0	(0.0)
Number of Points Low (%):	0	(0.0)	0	(0.0)

Report Generated: 02-Oct-1998 at 09:18

COMMENTS: _____

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_____

REVIEWED BY: _____ **DATE:** 10/2/98

Cumulative by Location (v04.01.97)

ARGUS

Relative Humidity Deviations Report
Location: Room 01

Protocol Number: 1416-001

Range of Dates: 06-Jan-1998 12:12 to 25-Sep-1998 16:30

Humidity Target Range: 30% to 70%
Species: Rat

Date	Time	R.H.	Date	Time	R.H.
06-Jan-1998	13:00	73.6 H	08-Jan-1998	05:00	77.4 H
06-Jan-1998	14:00	74.9 H	08-Jan-1998	06:00	72.5 H
06-Jan-1998	15:00	75.0 H	08-Jan-1998	07:00	71.8 H
06-Jan-1998	19:00	74.5 H	08-Jan-1998	10:00	70.6 H
06-Jan-1998	20:00	75.3 H	08-Jan-1998	11:00	70.1 H
06-Jan-1998	21:00	75.4 H	08-Jan-1998	12:00	70.9 H
06-Jan-1998	22:00	72.1 H	08-Jan-1998	13:00	70.7 H
06-Jan-1998	23:00	70.2 H	08-Jan-1998	15:00	72.5 H
07-Jan-1998	01:00	74.8 H	08-Jan-1998	18:00	71.3 H
07-Jan-1998	02:00	74.2 H	08-Jan-1998	19:00	76.8 H
07-Jan-1998	04:00	72.0 H	08-Jan-1998	20:00	77.6 H
07-Jan-1998	09:00	72.1 H	08-Jan-1998	21:00	77.2 H
07-Jan-1998	12:00	70.3 H	08-Jan-1998	22:00	77.5 H
07-Jan-1998	13:00	70.2 H	09-Jan-1998	00:00	73.4 H
07-Jan-1998	15:00	71.8 H	09-Jan-1998	01:00	76.8 H
08-Jan-1998	03:00	75.1 H	09-Jan-1998	02:00	72.1 H
08-Jan-1998	04:00	75.2 H	09-Jan-1998	03:00	75.2 H

H = Value out of range - High L = Value out of range - Low
R.H. = Relative Humidity (%)

Report Generated: 02-Oct-1998 at 08:09

✓ These deviations did not adversely affect the outcome or interpretation of the study.

_____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: _____ Date: 13 NOV 98

Deviations by Location (v04.01.97)

ARGUS

Relative Humidity Deviations Report
Location: Room 01

Protocol Number: 1416-001

Range of Dates: 06-Jan-1998 12:12 to 25-Sep-1998 16:30

Humidity Target Range: 30% to 70%
Species: Rat

Date	Time	R.H.	Date	Time	R.H.
09-Jan-1998	04:00	76.2 H	28-Mar-1998	21:00	70.5 H
09-Jan-1998	05:00	72.7 H	29-Mar-1998	05:00	70.8 H
09-Jan-1998	06:00	75.7 H	29-Mar-1998	07:00	70.3 H
09-Jan-1998	10:00	71.0 H	29-Mar-1998	08:00	70.9 H
06-Feb-1998	14:00	29.1 L	29-Mar-1998	09:00	70.7 H
06-Feb-1998	15:00	28.3 L	30-Mar-1998	18:00	70.5 H
09-Mar-1998	11:00	71.1 H	30-Mar-1998	19:00	71.1 H
09-Mar-1998	14:00	70.1 H	31-Mar-1998	02:00	70.6 H
09-Mar-1998	15:00	71.3 H	31-Mar-1998	08:00	70.6 H
09-Mar-1998	19:00	72.7 H	31-Mar-1998	19:00	70.2 H
12-Mar-1998	11:00	29.8 L	31-Mar-1998	21:00	72.2 H
12-Mar-1998	13:00	29.1 L	31-Mar-1998	22:00	71.0 H
12-Mar-1998	15:00	29.9 L	01-Apr-1998	02:00	72.8 H
27-Mar-1998	21:00	71.0 H	01-Apr-1998	03:00	71.3 H
27-Mar-1998	22:00	72.4 H	01-Apr-1998	04:00	71.1 H
27-Mar-1998	23:00	72.5 H	01-Apr-1998	10:00	70.1 H
28-Mar-1998	11:00	71.8 H	01-Apr-1998	11:00	71.1 H

H = Value out of range - High L = Value out of range - Low
R.H. = Relative Humidity (%)

Report Generated: 02-Oct-1998 at 08:14

✓ These deviations did not adversely affect the outcome or interpretation of the study.

____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: _____ Date: 13-Nov-98

Deviations by Location (v04.01.97)

ARGUS

Relative Humidity Deviations Report
Location: Room 01

Protocol Number: 1416-001

Range of Dates: 06-Jan-1998 12:12 to 25-Sep-1998 16:30

Humidity Target Range: 30% to 70%
Species: Rat

Date	Time	R.H.	Date	Time	R.H.
05-Apr-1998	09:00	29.5 L	10-Jul-1998	18:00	70.7 H
05-Apr-1998	15:00	27.4 L	22-Jul-1998	13:00	70.5 H
05-Apr-1998	16:00	25.5 L			
05-Apr-1998	17:00	25.4 L			
05-Apr-1998	18:00	26.9 L			
05-Apr-1998	19:00	27.1 L			
05-Apr-1998	22:00	28.3 L			
06-May-1998	17:00	70.3 H			
21-May-1998	01:00	70.6 H			
29-May-1998	11:00	70.4 H			
30-May-1998	06:00	70.3 H			
30-May-1998	23:00	71.0 H			
31-May-1998	03:00	71.2 H			
31-May-1998	06:00	70.1 H			
11-Jun-1998	05:00	70.1 H			
12-Jun-1998	03:00	71.3 H			
12-Jun-1998	09:00	70.4 H			

H = Value out of range - High L = Value out of range - Low
R.H. = Relative Humidity (%)

Report Generated: 02-Oct-1998 at 08:25

✓ These deviations did not adversely affect the outcome or interpretation of the study.

_____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: _____ Date: 13-NOV-98

Deviations by Location (v04.01.97)

ARGUS

Temperature Deviations Report
Location: Room 01

Protocol Number: 1416-001

Range of Dates: 06-Jan-1998 12:12 to 25-Sep-1998 16:30

Temperature Target Range: 64°F to 79°F
Species: Rat

Date	Time	Temp.	Date	Time	Temp.
17-Sep-1998	18:00	58.4 L			
17-Sep-1998	19:00	59.1 L			
17-Sep-1998	21:00	54.3 L			
17-Sep-1998	22:00	58.4 L			
18-Sep-1998	01:00	57.0 L			
18-Sep-1998	04:00	63.3 L			
18-Sep-1998	05:00	62.6 L			
18-Sep-1998	06:00	60.5 L			
18-Sep-1998	08:00	59.8 L			

H = Value out of range - High L = Value out of range - Low
Temp. = Temperature °F

Report Generated: 02-Oct-1998 at 08:09

✓ These deviations did not adversely affect the outcome or interpretation of the study.

____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: [signature] Date: 13 NOV 98

Deviations by Location (v04.01.97)

ARGUS

Relative Humidity Deviations Report
Location: Room 07

Protocol Number: 1416-001

Range of Dates: 17-Aug-1998 16:05 to 27-Aug-1998 14:00

Humidity Target Range: 30% to 70%
Species: Rat

Date	Time	R.H.	Date	Time	R.H.
17-Aug-1998	20:00	70.3 H			

H = Value out of range - High L = Value out of range - Low
R.H. = Relative Humidity (%)

Report Generated: 17-Feb-1999 at 11:44

✓ These deviations did not adversely affect the outcome or interpretation of the study.

_____ The following deviation(s) impacted on the outcome of the study as described:

Study Director: _____ Date: 17-Feb-99

PMI NUTRITION
INTERNATIONAL

TO RICHMOND, IN CC D.G.HAUGHT, ZE

LAB NO 558344 ENTERED 08/01/97 REPORTED 08/12/97 RHI 5002

CERTIFIED RODENT DIET MEAL
LOT NUMBER JUL 30 97 ZB

ASSAY	ANALYSIS	UNITS
PROTEIN (N X 6.25)	22.2	%
FAT (ACID HYDRO.)	5.78	%
FIBER (CRUDE)	4.84	%
ARSENIC	0.297	PPM
ADMIUM	0.0644	PPM
CALCIUM	0.897	%
LEAD	0.214	PPM
MERCURY	LESS THAN 0.05	PPM
PHOSPHORUS	0.663	%
SELENIUM	0.277	PPM

Ellen Anderson 12/10/97
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ORGANOPHOSPHATE PEST

	(PPM)		(PPM)
DIAZINON	LESS THAN 0.02	PARATHION	LESS THAN 0.02
DISULFOTON	LESS THAN 0.02	THIMET	LESS THAN 0.02
ETHION	LESS THAN 0.02	THIODAN	LESS THAN 0.02
MALATHION	0.02	TRITHION	LESS THAN 0.02
METHYL PARATHION	LESS THAN 0.02		

PESTICIDE & PCB

	(PPM)		(PPM)
ALDRIN	LESS THAN 0.02	ENDRIN	LESS THAN 0.02
ALPHA-BHC	LESS THAN 0.02	HCB	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02	HEPTACHLOR	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
CHLORDANE	LESS THAN 0.02	LINDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
DDT..(TOTAL)	LESS THAN 0.02	MIREX	LESS THAN 0.02
DIELDRIN	LESS THAN 0.02	PCB	LESS THAN 0.15

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PMI NUTRITION
INTERNATIONAL

RT LAB NUMBER 558344 PAGE 2

CERTIFIED RODENT DIET MEAL
LOT NUMBER JUL 30 97 2B

AFLATOXIN
TOTAL:LESS THAN 5 PPB

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:
(1) FOR ASSAY METHODOLOGY - MICHAEL J. MURPHY 314-982-2383
(2) FOR NUTRITIONAL INTERPRETATION-DR. DORRANCE HAUGHT 314-768-4362
(3) ALL OTHER QUESTIONS-RICHMOND, IN., MANUFACTURING PLANT 317-962-9561

Ellis Anderson 12/16/97
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PMI NUTRITION
INTERNATIONAL

TO RICHMOND, IN CC D.G.HAUGHT, 2E

LAB NO 574268 ENTERED 11/11/97 REPORTED 11/21/97 RHI 5002

CERTIFIED RODENT DIET MEAL
LOT NUMBER NOV 08 97 3B

ASSAY	ANALYSIS	UNITS
PROTEIN (N X 6.25)	21.4	%
FAT (ACID HYDRO.)	5.81	%
FIBER (CRUDE)	3.85	%
ARSENIC	0.271	PPM
CADMIUM	0.0892	PPM
ALCIUM	0.665	%
LEAD	0.383	PPM
MERCURY	LESS THAN 0.05	PPM
PHOSPHORUS	0.634	%
SELENIUM	0.327	PPM

Ellen Anderson 1/27/98
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ORGANOPHOSPHATE PEST

	(PPM)		(PPM)
DIAZINON	LESS THAN 0.02	PARATHION	LESS THAN 0.02
DISULFOTON	LESS THAN 0.02	THIMET	LESS THAN 0.02
ETHION	LESS THAN 0.02	THIODAN	LESS THAN 0.02
MALATHION	0.04	TRITHION	LESS THAN 0.02
METHYL PARATHION	LESS THAN 0.02		

PESTICIDE & PCB

	(PPM)		(PPM)
ALDRIN	LESS THAN 0.02	ENDRIN	LESS THAN 0.02
ALPHA-BHC	LESS THAN 0.02	HCB	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02	HEPTACHLOR	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
CHLORDANE	LESS THAN 0.02	LINDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
DDT..(TOTAL)	LESS THAN 0.02	MIREX	LESS THAN 0.02
DIELDRIN	LESS THAN 0.02	PCB	LESS THAN 0.15

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RT LAB NUMBER 574268 PAGE 2

CERTIFIED RODENT DIET MEAL
LOT NUMBER NOV 08 97 3B

AFLATOXIN BY TLC
TOTAL:LESS THAN 5 PPB

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:
(1) FOR ASSAY METHODOLOGY - MICHAEL J. MURPHY 314-982-2383
(2) FOR NUTRITIONAL INTERPRETATION-DR. DORRANCE HAUGHT 314-768-4362
(3) ALL OTHER QUESTIONS-RICHMOND, IN., MANUFACTURING PLANT 317-962-9561

Edie Anderson 1/27/98
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LabDiet

Certified Analysis Retrieval

Product Code: 5002M Product Desc: CERTIFIED RODENT DIET MEAL
Lab Number: 595480 Lot Code: MAR 20 98 1B Entered: 03 24 1998

Assay	Analysis	Units
Protein (N x 6.25)	21.2	%
Fat (Acid Hydro.)	5.7	%
Fiber (Crude)	4.3	%
Arsenic	LESS THAN 0.2 PPM	
Cadmium	0.0844	PPM
Calcium	0.884	%
Lead	0.17	PPM
Mercury	LESS THAN 0.05 PPM	
Phosphorus	0.645	%
Selenium	0.349	PPM

Organophosphates	PPM		PPM
DIAZINON	LESS THAN 0.02	DISULFOTON	LESS THAN 0.02
ETHION	LESS THAN 0.02	MALATHION	0.11
METHYL PARATHION	LESS THAN 0.02	PARATHION	LESS THAN 0.02
THIMET	LESS THAN 0.02	THIODAN	LESS THAN 0.02
TRITHION	LESS THAN 0.02		

Pesticides and PCB	PPM		PPM
ALDRIN	LESS THAN 0.02	ALPHA-BHC	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02	CHLORDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT (TOTAL)	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	DIELDRIN	LESS THAN 0.02
ENDRIN	LESS THAN 0.02	HCB	LESS THAN 0.02
HEPTACHLOR	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
LINDANE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
MIREX	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	TOTAL:LESS THAN 5	PPB	

For additional information, please contact:
(1) For assay methodology - Michael J. Murphy 314-982-2383
(2) For nutritional interpretation - Dr. Dorrance Haught 314-768-4362
(3) All other questions - Richmond, IN Sales Office 765-962-9561

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of analyte were present.

E C Anderson 4/24/98

REVIEWED BY: DATE

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LabDiet

Certified Analysis Retrieval

Product Code: 5002M Product Desc: CERTIFIED RODENT DIET MEAL
Lab Number: 602983 Lot Code: APR 29 98 2B Entered: 05/01/1998

Assay	Analysis	Units
Protein (N x 6.25)	21	%
Fat (Acid Hydro.)	5.67	%
Fiber (Crude)	4.3	%
Arsenic	0.231	PPM
Cadmium	0.102	PPM
Calcium	0.987	%
Lead	0.19	PPM
Mercury	LESS THAN 0.05 PPM	
Phosphorus	0.691	%
Selenium	0.319	PPM

Organophosphates	PPM		PPM
DIAZINON	LESS THAN 0.02	DISULFOTON	LESS THAN 0.02
ETHION	LESS THAN 0.02	MALATHION	0.05
METHYL PARATHION	LESS THAN 0.02	PARATHION	LESS THAN 0.02
THIMET	LESS THAN 0.02	THIODAN	LESS THAN 0.02
TRITHION	LESS THAN 0.02		

Pesticides and PCB	PPM		PPM
ALDRIN	LESS THAN 0.02	ALPHA-BHC	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02	CHLORDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT (TOTAL)	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	DIELDRIN	LESS THAN 0.02
ENDRIN	LESS THAN 0.02	HCB	LESS THAN 0.02
HEPTACHLOR	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
LINDANE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
MIREX	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	TOTAL:LESS THAN 5	PPB	

For additional information, please contact:
(1) For assay methodology - Michael J. Murphy 314-982-2383
(2) For nutritional interpretation - Dr. Dorrance Haught 314-768-4362
(3) All other questions - Richmond, IN Sales Office 765-962-9561

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of analyte were present.

[signature] 6/30/98
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PMI NUTRITION
INTERNATIONAL

TO RICHMOND, IN CC D.G.HAUGHT, ZE

LAB NO 688786 ENTERED 06/09/98 REPORTED 06/17/98 RHI 8002

CERTIFIED RODENT DIET MEAL
LOT NUMBER JUN 08 98 1B

ASSAY	ANALYSIS	UNITS
PROTEIN (N X 6.25)	21.8	%
FAT (ACID HYDRO.)	6.04	%
FIBER (CRUDE)	4.22	%
ARSENIC	LESS THAN 0.2 PPM	
CADMIUM	0.0910	PPM
CALCIUM	0.932	%
LEAD	0.172	PPM
MERCURY	LESS THAN 0.05 PPM	
PHOSPHORUS	0.705	%
SELENIUM	0.268	PPM

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To Scott
From Brian
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ORGANOPHOSPHATE PEST

	(PPM)
DIAZINON	LESS THAN 0.02
DISULFOTON	LESS THAN 0.02
ETHION	LESS THAN 0.02
MALATHION	0.03
METHYL PARATHION	LESS THAN 0.02
PARATHION	LESS THAN 0.02
THIMET	LESS THAN 0.02
THIODAN	LESS THAN 0.02
TRITHION	LESS THAN 0.02

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PESTICIDE & PCB

	(PPM)
ALDRIN	LESS THAN 0.02
ALPHA-BHC	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02
CHLORDANE	LESS THAN 0.02
DDE	LESS THAN 0.02
DDT..(TOTAL)	LESS THAN 0.02
ENDRIN	LESS THAN 0.02
HCB	LESS THAN 0.02
HEPTACHLOR	LESS THAN 0.02
HEPTACHLOR EPOXIDE	LESS THAN 0.02
LINDANE	LESS THAN 0.02
METHOXYCHLOR	LESS THAN 0.02
MIREX	LESS THAN 0.02

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JUL 13 '98 (MON) 14:56 PURINA 7659665812 PAGE 2/3

PMI NUTRITION
INTERNATIONAL

RT LAB.NUMBER 608764

CERTIFIED RODENT DIET MEAL
LOT NUMBER JUN 08 98 1S

PESTICIDE & PCB (CONTINUED)
DIELDRIN..... LESS THAN 0.02 PCB..... LESS THAN 0.15

AFLATOXIN BY TLC
TOTAL:LESS THAN 5 PPB

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:
(1) FOR ASSAY METHODOLOGY - MICHAEL J. MURPHY 314-982-2288
(2) FOR NUTRITIONAL INTERPRETATION-DR. DORRANCE HAUGHT 314-768-4862
(3) ALL OTHER QUESTIONS-RICHMOND, IN., MANUFACTURING PLANT 317-962-9861

REVIEWED BY: DATE

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SKB 7-24-98

1401 S. Hanley Road ◆ St. Louis, MO 63144
Phone 314-768-4100 ◆ Fax 314-768-4765

LabDiet

rtified Analysis Retriev

EXACT COPY
AE 10/2/98

Product Code: 5002M Product Desc: CERTIFIED RODENT DIET MEAL
Lab Number: 608757 Lot Code: JUN 08 98 1C Entered: 06/09/1998

Assay	Analysis	Units
Protein (N x 6.25)	21.5	%
Fat (Acid Hydro.)	6.02	%
Fiber (Crude)	4.65	%
Arsenic	LESS THAN 0.2 PPM	
Cadmium	0.0961	PPM
Calcium	0.902	%
Lead	0.158	PPM
Mercury	LESS THAN 0.05 PPM	
Phosphorus	0.705	%
Selenium	0.218	PPM

Organophosphates	PPM		PPM
DIAZINON	LESS THAN 0.02	DISULFOTON	LESS THAN 0.02
ETHION	LESS THAN 0.02	MALATHION	0.04
METHYL PARATHION	LESS THAN 0.02	PARATHION	LESS THAN 0.02
THIMET	LESS THAN 0.02	THIODAN	LESS THAN 0.02
TRITHION	LESS THAN 0.02		

Pesticides and PCB	PPM		PPM
ALDRIN	LESS THAN 0.02	ALPHA-BHC	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02	CHLORDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT (TOTAL)	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	DIELDRIN	LESS THAN 0.02
ENDRIN	LESS THAN 0.02	HCB	LESS THAN 0.02
HEPTACHLOR	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
LINDANE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
MIREX	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	TOTAL:LESS THAN 5	PPB	

For additional information, please contact:
(1) For assay methodology - Michael J. Murphy 314-982-2383
(2) For nutritional interpretation - Dr. Dorrance Haught 314-768-4362
(3) All other questions - Richmond, IN Sales Office 765-962-9561

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of analyte were present.

Ellen Anderson 9/23/98
REVIEWED BY: DATE

LabDiet

Certified Analysis Retrieval

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Product Code: 5002M Product Desc: CERTIFIED RODENT DIET MEAL
Lab Number: 609877 Lot Code: JUN 15 98 1C Entered: 06/16/1998

Assay	Analysis	Units
Protein (N x 6.25)	21.4	%
Fat (Acid Hydro.)	5.85	%
Fiber (Crude)	4.48	%
Arsenic	0.244	PPM
Cadmium	0.066	PPM
Calcium	0.977	%
Lead	0.105	PPM
Mercury	LESS THAN 0.05 PPM	
Phosphorus	0.579	%
Selenium	0.277	PPM

Organophosphates	PPM		PPM
DIAZINON	LESS THAN 0.02	DISULFOTON	LESS THAN 0.02
ETHION	LESS THAN 0.02	MALATHION	LESS THAN 0.02
METHYL PARATHION	LESS THAN 0.02	PARATHION	LESS THAN 0.02
UIMET	LESS THAN 0.02	THIODAN	LESS THAN 0.02
ETHION	LESS THAN 0.02		

Pesticides and PCB	PPM		PPM
ALDRIN	LESS THAN 0.02	ALPHA-BHC	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02	CHLORDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT (TOTAL)	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	DIELDRIN	LESS THAN 0.02
ENDRIN	LESS THAN 0.02	HCB	LESS THAN 0.02
HEPTACHLOR	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
LINDANE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
MIREX	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	TOTAL:LESS THAN 5	PPB	

For additional information, please contact:
(1) For assay methodology - Michael J. Murphy 314-982-2383
(2) For nutritional interpretation - Dr. Dorrance Haught 314-768-4362
(3) All other questions - Richmond, IN Sales Office 765-962-9561

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of analyte were present.

Edie Anderson 7/22/98
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LabDiet

Certified Analysis Retrieval

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Product Code: 5002M Product Desc: CERTIFIED RODENT DIET MEAL
Lab Number: 612420 Lot Code: JUL 01 98 1B Entered: 07/02/1998

Assay	Analysis	Units
Protein (N x 6.25)	21.6	%
Fat (Acid Hydro.)	5.79	%
Fiber (Crude)	4.23	%
Arsenic	0.214	PPM
Cadmium	0.0581	PPM
Calcium	1.01	%
Lead	0.201	PPM
Mercury	LESS THAN 0.05 PPM	
Phosphorus	0.613	%
Selenium	0.223	PPM

Organophosphates	PPM		PPM
DIAZINON	LESS THAN 0.02	DISULFOTON	LESS THAN 0.02
ETHION	LESS THAN 0.02	MALATHION	0.05
METHYL PARATHION	LESS THAN 0.02	PARATHION	LESS THAN 0.02
THIMET	LESS THAN 0.02	THIODAN	LESS THAN 0.02
TRITHION	LESS THAN 0.02		

Pesticides and PCB	PPM		PPM
ALDRIN	LESS THAN 0.02	ALPHA-BHC	LESS THAN 0.02
BETA-BHC	LESS THAN 0.02	CHLORDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT (TOTAL)	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	DIELDRIN	LESS THAN 0.02
ENDRIN	LESS THAN 0.02	HCB	LESS THAN 0.02
HEPTACHLOR	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
LINDANE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
MIREX	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	TOTAL:LESS THAN 5	PPB	

For additional information, please contact:
(1) For assay methodology - Michael J. Murphy 314-982-2383
(2) For nutritional interpretation - Dr. Dorrance Haught 314-768-4362
(3) All other questions - Richmond, IN Sales Office 765-962-9561

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of analyte were present.

Ellen Anderson 9/23/98
REVIEWED BY: DATE

LabDiet

Certified Analysis Retrieval

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AR 10/2/95

roduct Code: 5002M Product Desc: CERTIFIED RODENT CHOW MEAL
Lab Number: 615890 Lot Code: JUL 21 98 3C Entered: 07/24/1998

Assay	Analysis	Units
Protein (N x 6.25)	20.9	%
Fat (Acid Hydro.)	5.58	%
Fiber (Crude)	5.24	%
Arsenic	LESS THAN 0.2 PPM	
Cadmium	LESS THAN 0.05 PPM	
Calcium	0.945	%
Lead	0.205	PPM
Mercury	LESS THAN 0.05 PPM	
Phosphorus	0.622	%
Selenium	0.223	PPM

Organophosphates	PPM		PPM
DIAZINON	LESS THAN 0.02	DISULFOTON	LESS THAN 0.02
ETHION	LESS THAN 0.02	MALATHION	LESS THAN 0.02
METHYL PARATHION	LESS THAN 0.02	PARATHION	LESS THAN 0.02
THIMET	LESS THAN 0.02	THIODAN	LESS THAN 0.02
TRITHION	LESS THAN 0.02		

Pesticides and PCB	PPM		PPM
ALDRIN	LESS THAN 0.02	ALPHA-BHC	LESS THAN 0.02
ETA-BHC	LESS THAN 0.02	CHLORDANE	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT (TOTAL)	LESS THAN 0.02
DELTA-BHC	LESS THAN 0.02	DIELDRIN	LESS THAN 0.02
ENDRIN	LESS THAN 0.02	HCB	LESS THAN 0.02
HEPTACHLOR	LESS THAN 0.02	HEPTACHLOR EPOXIDE	LESS THAN 0.02
LINDANE	LESS THAN 0.02	METHOXYCHLOR	LESS THAN 0.02
MIREX	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	TOTAL:LESS THAN 5	PPB	

For additional information, please contact:
(1) For assay methodology - Michael J. Murphy 314-982-2383
(2) For nutritional interpretation - Dr. Dorrance Haught 314-768-4362
(3) All other questions - Richmond, IN Sales Office 765-962-9561

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed. The use of the term "Less Than" does not imply that traces of analyte were present.

Ellis Anderson 9/23/95
REVIEWED BY: DATE

Analysis Report

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2865092
Collected: 1/27/98 at 10:00 by EA

Submitted: 1/28/98 Reported: 2/12/98
Discard: 3/15/98

Sampling Point #1 Fetal Evaluation Lab Grab Water Sample
Semi-Annual

Account No: 02423
Argus Research Laboratories In
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
0178	Pesticides/PCB's in Water			See Page 2
1856	Herbicides in Water			See Page 3
0514	Anion Scan			See Page 4
0226	Ortho-Phosphate as P	< 0.020	0.020	mg/l

1 COPY TO Argus Research Labs., Inc. ATTN: Alan M. Hoberman, Ph D

Reviewed by: John Barnett 2/16/98

EXACT COPY
SDH 3/31/98

Questions? Contact your Client Services Representative at (717) 656-2300

06:28:25 D 0001 2 600394
0.00 00062800 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER ASTE
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Analysis Repo

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2865092
Collected: 1/27/98 at 10:00 by EA

Submitted: 1/28/98 Reported: 2/12/98
Discard: 3/15/98

Sampling Point #1 Fetal Evaluation Lab Grab Water Sample
Semi-Annual

Account No: 02423
Argus Research Laboratories In
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
Pesticides/PCB's in Water				
1902	Alpha BHC	< 0.0096	0.0096	ug/l
1903	Beta BHC	< 0.0096	0.0096	ug/l
0453	Gamma BHC - Lindane	< 0.0096	0.0096	ug/l
1904	Delta BHC	< 0.0096	0.0096	ug/l
0454	Heptachlor	< 0.0096	0.0096	ug/l
0455	Aldrin	< 0.0096	0.0096	ug/l
1905	Heptachlor Epoxide	< 0.0096	0.0096	ug/l
1906	DDE	< 0.0096	0.0096	ug/l
1907	DDD	< 0.0096	0.0096	ug/l
0478	DDT	< 0.0096	0.0096	ug/l
0469	Dieldrin	< 0.0096	0.0096	ug/l
0477	Endrin	< 0.0096	0.0096	ug/l
1908	Chlordane	< 0.29	0.29	ug/l
1909	Toxaphene	< 3.8	3.8	ug/l
1910	Endosulfan I	< 0.0096	0.0096	ug/l
1911	Endosulfan II	< 0.0096	0.0096	ug/l
1912	Endosulfan Sulfate	< 0.029	0.029	ug/l
0638	Endrin Aldehyde	< 0.096	0.096	ug/l
1913	PCB-1016	< 1.0	1.0	ug/l
1914	PCB-1221	< 1.0	1.0	ug/l
1915	PCB-1232	< 1.0	1.0	ug/l
1916	PCB-1242	< 1.0	1.0	ug/l
1917	PCB-1248	< 1.0	1.0	ug/l
1918	PCB-1254	< 1.0	1.0	ug/l
1919	PCB-1260	< 1.0	1.0	ug/l

3/4/98

Questions? Contact your Client Services Representative
at (717) 656-2300

EXACT COPY
3/31/98

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

Analysis Report

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2865092
Collected: 1/27/98 at 10:00 by EA

Submitted: 1/28/98 Reported: 2/12/98
Discard: 3/15/98

Sampling Point #1 Fetal Evaluation Lab Grab Water Sample
Semi-Annual

Account No: 02423
Argus Research Laboratories In
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
Herbicides in Water				
1857	2,4-D	< 0.48	0.48	ug/l
1858	2,4,5-TP	< 0.048	0.048	ug/l
5286	2,4,5-T	< 0.048	0.048	ug/l
5287	Dalapon	< 1.2	1.2	ug/l
5288	Dinoseb	< 0.24	0.24	ug/l
5289	Dicamba	< 0.048	0.048	ug/l
5290	MCPP	< 48.	48.	ug/l
5291	MCPA	< 48.	48.	ug/l
5292	2,4-DP (Dichlorprop)	< 0.48	0.48	ug/l
5293	2,4-DB	< 0.48	0.48	ug/l
8103	Pentachlorophenol	< 0.05	0.05	ug/l

[signature] 3/4/98

Questions? Contact your Client Services Representative at (717) 656-2300

EXACT COPY
[signature] 3/31/98

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97

Analysis Report

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2865092
Collected: 1/27/98 at 10:00 by EA

Submitted: 1/28/98 Reported: 2/12/98
Discard: 3/15/98

Sampling Point #1 Fetal Evaluation Lab Grab Water Sample
Semi-Annual

Account No: 02423
Argus Research Laboratories In
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
Anion Scan				
0602	Bromide	< 2.5	2.5	mg/l
0603	Chloride	1.2	1.0	mg/l
0604	Fluoride	< 0.50	0.50	mg/l
0605	Nitrate Nitrogen	< 0.50	0.50	mg/l
0606	Nitrite Nitrogen	< 0.50	0.50	mg/l
0608	Sulfate	< 2.5	2.5	mg/l

3/4/98

Questions? Contact your Client Services Representative
at (717) 656-2300

EXACT COPY
3/31/98

Respectfully Submitted
Erik Frederiksen, BA
Group Leader, Water Quality

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044

Attn: **Lab 215-443-8710**

Sample source: **DI 905**

Sample Number : **3064-98A**
Date Sampled : **01/14/98**
Time Sampled : **1345**
Date Received : **01/14/98**
Sampled By : **GWK**
Settlement date:

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
N liform bacteria, counts/100 ml		< 1
T l Chlorine, mg/l as Cl		< 0.1

EXACT COPY

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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PA DER #09-332
NJ Cert #77847

Maryann E. Fedock / President

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044

Attn: **Lab 215-443-8710**

Sample source: **Rm. 10 905**

Sample Number : **3064-98B**
Date Sampled : **01/14/98**
Time Sampled : **1345**
Date Received : **01/14/98**
Sampled By : **GWK**
Settlement date:

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
N oliform bacteria, counts/100 ml		< 1
T l Chlorine, mg/l as Cl		0.2

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JSB 2/11/98.
(R) 2/23/98

Dena Lebo
1/19/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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Maryann E. Fedock
Maryann E.Fedock / President

PA DER #09-332
NJ Cert #77847

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: Argus Research, Inc.
905 Sheehy Drive
Horsham, PA 19044

Attn: Lab 215-443-8710

Sample Number : 3174-98A
Date Sampled : 02/09/98
Time Sampled : 1130
Date Received : 02/09/98
Sampled By : GWK
Settlement date:

Sample source: DI 905
Fetal Evaluation room ① 3/10/98

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
Fecal Coliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		< 0.1

D Lebo 3/10/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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Maryann E. Fedock / President
AR Lab 3/11/98
Ellen M Thiele 3-12-98

PA DER #09-332
NJ Cert #77847

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: Argus Research, Inc.
905 Sheehy Drive
Horsham, PA 19044

Attn: Lab 215-443-8710

Sample Number : 3174-98B
Date Sampled : 02/09/98
Time Sampled : 1130
Date Received : 02/09/98
Sampled By : GWK
Settlement date:

Sample source: 905 Rm. 10

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
T[illegible]al Coliform Bacteria, counts/100 ml	< 1	< 1
N[illegible]oliform bacteria, counts/100 ml		< 1
T[illegible]al Chlorine, mg/l as Cl		0.2

D. Lab 3/10/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

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Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

(1) Original ~~inadvertently~~ inadvertently (E) mP 3/17/98 Cost. (F) BY 3/11/98

Maryann E. Fedock
Maryann E. Fedock / President
Abstract 3/11/98
Allen M. Thuck 3-17-98

PA DER #09-332
NJ Cert #77847

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044

Attn: **Lab 215-443-8710**

Sample source: **DI 905** BA 3/9/98 Fetal Evaluation Sub

Sample Number : **3306-98A**
Date Sampled : **03/03/98**
Time Sampled : **1320**
Date Received : **03/03/98**
Sampled By : **GWK**
Settlement date:

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
[illegible] coliform bacteria, counts/100 ml		< 1
T[illegible]l Chlorine, mg/l as Cl		< 0.1

D. Lebo 3/9/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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SKB 3-30-98

Maryann E. Fedock

Maryann E.Fedock / President

PA DER #09-332
NJ Cert #77847

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044

Attn: **Lab 215-443-8710**

Sample source: **Rm. 14 905**

Sample Number : **3306-98B**
Date Sampled : **03/03/98**
Time Sampled : **1320**
Date Received : **03/03/98**
Sampled By : **GWK**
Settlement date:

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
coliform bacteria, counts/100 ml		< 1
l Chlorine, mg/l as Cl		0.4

D. Libra 3/9/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

EXACT COPY 3-30-98 SKB

Maryann E. Fedock / President

PA DER #09-332
NJ Cert #77847

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **3584-98A**
Date Sampled : **04/27/98**
Time Sampled : **1340**
Date Received : **04/27/98**
Sampled By : **GWK**
Settlement date:

Sample source: **905 DI** (A) ~~Faucet~~ Formulations Lab (D) Dec 5/1/98 Dec 5/1/98

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
N -oliform bacteria, counts/100 ml		< 1
1 .l Chlorine, mg/l as Cl		< 0.1

5/1/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

EXACT COPY 5/5/98

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

PA DER #09-332
NJ Cert #77847

Maryann E. Fedock / President

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **3584-98B**
Date Sampled : **04/27/98**
Time Sampled : **1340**
Date Received : **04/27/98**
Sampled By : **GWK**
Settlement date:

Sample source: **905 Rm. 14**

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
F coliform bacteria, counts/100 ml		< 1
T. l Chlorine, mg/l as Cl		1.2

D. LeBo
5/1/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

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5/5/1998

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

Maryann E Fedock

Maryann E.Fedock / President

PA DER #09-332
NJ Cert #77847

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **4057-98A**
Date Sampled : **05/18/98**
Time Sampled : **1500**
Date Received : **05/18/98**
Sampled By : **RW**
Settlement date:

Sample source: **Chem. Lab**

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
al Coliform Bacteria, counts/100 ml	< 1	< 1
N. coliform Bacteria, counts 100 ml		< 1

Sample to be repeated to include Chlorine value ASAP 5/20

D. Lehr 5/20/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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NJ Cert #77847

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SLG 7-23-98

Maryann E.Fedock / President

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample source: **#14** Room (D) Dec 5/26/98

Sample Number : **4057-98B**
Date Sampled : **05/18/98**
Time Sampled : **1500**
Date Received : **05/18/98**
Sampled By : **RW**
Settlement date:

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
al Coliform Bacteria, counts/100 ml	< 1	< 1
coliform Bacteria, counts 100 ml		< 1

Sample to be repeated to include Chlorine value Dec 5/26

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

I DER #09-332
NJ Cert #77847

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Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **4128-98A**
Date Sampled : **05/29/98**
Time Sampled : **1348**
Date Received : **05/29/98**
Sampled By : **RW**
Settlement date:

Sample source: **Lab** 905 Sheehy
(D) Dec Formulations
6/3/98

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
Fecoliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		< 0.1

D. Hilo
6/3/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

PA DER #09-332
NJ Cert #77847

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MaryAnn E.Fedock / President

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **4128-98B**
Date Sampled : **05/29/98**
Time Sampled : **1348**
Date Received : **05/29/98**
Sampled By : **RW**
Settlement date:

Sample source: **Lab - Rm. 10**
DL ⓓ 905 Sheehy Drive
6/3/98

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
ıcoliform bacteria, counts/100 ml		< 1
..cal Chlorine, mg/l as Cl		0.4

D. Lee
6/3/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

Maryann E. Fedock
Maryann E.Fedock / President

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NJ Cert #77847

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DLG 7-23-98

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **4276-98A**
Date Sampled : **06/12/98**
Time Sampled : **1330**
Date Received : **06/12/98**
Sampled By : **Customer**
Settlement date:

Sample source: **Lab** Formulations
905 Sheehy Drive
(D) DCL
6-17-98

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
Noncoliform Bacteria, counts 100 ml		< 1

Analytical labs contacted to perform a repeat sample including chlorine DCL 6/17/98

D. Lilo
6/17/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter
+ - Action Level

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Maryann E. Fedock / President

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Primedica Argus**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **4276-98A**
Date Sampled : **06/12/98**
Time Sampled : **1330**
Date Received : **06/12/98**
Sampled By : **Customer**
Settlement date:

Sample source: **Lab** Formulations 905 Sheehy Drive
[illegible] 7/15/98

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
N oliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		< 0.1

[illegible] 7/[illegible]/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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NJ Cert #77847

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Maryann E.Fedock / President

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: Argus Research, Inc.
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: Lab 215-443-8710

Sample Number : 4276-98B
Date Sampled : 06/12/98
Time Sampled : 1330
Date Received : 06/12/98
Sampled By : Customer
Settlement date:

Sample source: #12 905 Sheehy Drive
D DCL
6-17-98

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
Coliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		< 0.1

D Lelo
6/17/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

PA DER #09-332
NJ Cert #77847

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SKG 6-22-98

Maryann E. Fedock
Maryann E.Fedock / President

Analysis Report

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2956959
Collected: 7/ 1/98 at 08:50 by EA

Submitted: 7/ 1/98 Reported: 7/16/98
Discard: 8/16/98

Formulation Lab Grab Water Sample

905 Sheehy Dr.

Account No: 02423
Primedica Argus
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
0178	Pesticides/PCB's in Water			See Page 2
1856	Herbicides in Water			See Page 3
0224	Chloride	< 0.40	0.40	mg/l
0228	Sulfate	< 1.0	1.0	mg/l
0368	Nitrate Nitrogen	< 0.10	0.10	mg/l
1504	Fluoride	< 0.10	0.10	mg/l
1505	Bromide	< 0.50	0.50	mg/l
1506	Nitrite Nitrogen	< 0.10	0.10	mg/l
7322	Ortho-phosphate	< 1.0	1.0	mg/l

D. Heller
7/20/98

1 COPY TO Argus Research Labs., Inc. ATTN: Alan M. Hoberman, Ph D

Questions? Contact your Client Services Representative
at (717) 656-2300

23:16:02 D 0001 3 621703
135 0.00 00067700 ASR000

EXACT COPY
SKB 7-24-98

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER

Analysis Repo

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2956959
Collected: 7/ 1/98 at 08:50 by EA

Submitted: 7/ 1/98 Reported: 7/16/98
Discard: 8/16/98

Formulation Lab Grab Water Sample

905 Sheehy Dr.

Account No: 02423
Primedica Argus
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
Pesticides/PCB's in Water				
1902	Alpha BHC	< 0.0096	0.0096	ug/l
1903	Beta BHC	< 0.0096	0.0096	ug/l
0453	Gamma BHC - Lindane	< 0.0096	0.0096	ug/l
1904	Delta BHC	< 0.0096	0.0096	ug/l
0454	Heptachlor	< 0.0096	0.0096	ug/l
0455	Aldrin	< 0.0096	0.0096	ug/l
1905	Heptachlor Epoxide	< 0.0096	0.0096	ug/l
1906	DDE	< 0.0096	0.0096	ug/l
1907	DDD	< 0.0096	0.0096	ug/l
0478	DDT	< 0.0096	0.0096	ug/l
0469	Dieldrin	< 0.0096	0.0096	ug/l
0477	Endrin	< 0.0096	0.0096	ug/l
1908	Chlordane	< 0.29	0.29	ug/l
1909	Toxaphene	< 3.8	3.8	ug/l
1910	Endosulfan I	< 0.0096	0.0096	ug/l
1911	Endosulfan II	< 0.0096	0.0096	ug/l
1912	Endosulfan Sulfate	< 0.029	0.029	ug/l
0638	Endrin Aldehyde	< 0.096	0.096	ug/l
1913	PCB-1016	< 1.0	1.0	ug/l
1914	PCB-1221	< 1.0	1.0	ug/l
1915	PCB-1232	< 1.0	1.0	ug/l
1916	PCB-1242	< 1.0	1.0	ug/l
1917	PCB-1248	< 1.0	1.0	ug/l
1918	PCB-1254	< 1.0	1.0	ug/l
1919	PCB-1260	< 1.0	1.0	ug/l

D. Hess
7/20/98

Questions? Contact your Client Services Representative
at (717) 656-2300

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SKB 7-24-98

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER

Analysis Repo

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2956959
Collected: 7/ 1/98 at 08:50 by EA

Submitted: 7/ 1/98 Reported: 7/16/98
Discard: 8/16/98

Formulation Lab Grab Water Sample

905 Sheehy Dr.

Account No: 02423
Primedica Argus
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
Herbicides in Water				
1857	2,4-D	< 0.48	0.48	ug/l
1858	2,4,5-TP	< 0.048	0.048	ug/l
5286	2,4,5-T	< 0.048	0.048	ug/l
5287	Dalapon	< 1.2	1.2	ug/l
5288	Dinoseb	< 0.24	0.24	ug/l
5289	Dicamba	< 0.060	0.060	ug/l
5290	MCPP	< 190.	190.	ug/l
5291	MCPA	< 190.	190.	ug/l
5292	2,4-DP (Dichlorprop)	< 0.48	0.48	ug/l
5293	2,4-DB	< 0.48	0.48	ug/l
8103	Pentachlorophenol	< 0.05	0.05	ug/l

Due to interfering peaks on the chromatogram, the values reported for Dicamba represents the lowest quantitation limit obtainable. Despite numerous cleanup methods, we were unable to reach our usual quantitation limits.

D. Lilo
7/20/98

Questions? Contact your Client Services Representative
at (717) 656-2300

EXACT COPY
SAB 7-24-98

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

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SAMPLE ANALYSIS REPORT

Customer: Argus Research, Inc.
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: Lab 215-443-8710

Sample Number : 9163-98A
Date Sampled : 07/29/98
Time Sampled : 1400
Date Received : 07/29/98
Sampled By : GWK
Settlement date:

Sample source: 905 Chem. Lab DI

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
Fecal coliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		< 0.1

D. Hebo
8/6/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

PA DER #09-332
NJ Cert #77847

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ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
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SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **9163-98B**
Date Sampled : **07/29/98**
Time Sampled : **1400**
Date Received : **07/29/98**
Sampled By : **GWK**
Settlement date:

Sample source: ~~**905 Rm.**~~ **21**

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
coliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		0.1

8/6/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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NJ Cert #77847

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ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
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SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **4809-98A**
Date Sampled : **08/28/98**
Time Sampled : **1245**
Date Received : **08/28/98**
Sampled By : **RW**
Settlement date:

Sample source: **Lab**

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
Coliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		< 0.1

D. Lebo 9/8/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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Chalfont, PA 18914
(215) 723-6466

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10/2/98

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **4809-98B**
Date Sampled : **08/28/98**
Time Sampled : **1245**
Date Received : **08/28/98**
Sampled By : **RW**
Settlement date:

Sample source: **Rm. 15**

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
Fecal coliform bacteria, counts/100 ml		< 1
Total Chlorine, mg/l as Cl		0.5

D. Lebo 9/8/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710** (E) 10/7/98ED

Sample source: **DI 905** Formulation Lab

Sample Number : **9617-98A**
Date Sampled : **09/30/98**
Time Sampled : **1435**
Date Received : **09/30/98**
Sampled By : **GWK**
Settlement date:

ANALYTICAL RESULTS

Water Safety Classification: No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
coliform bacteria, counts/100 ml		< 1
al Chlorine, mg/l as Cl		< 0.1

Dena Lebo 10/6/98

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dlc 12/8/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

Maryann E Fedock

Maryann E.Fedock / President

PA DER #09-332
NJ Cert #77847

ANALYTICAL LABORATORIES, INC.
P.O. Box 319
Chalfont, PA 18914
(215) 723-6466

SAMPLE ANALYSIS REPORT

Customer: **Argus Research, Inc.**
905 Sheehy Drive
Horsham, PA 19044
FAX: 215-443-8587

Attn: **Lab 215-443-8710**

Sample Number : **9617-98B**
Date Sampled : **09/30/98**
Time Sampled : **1435**
Date Received : **09/30/98**
Sampled By : **GWK**
Settlement date:

Sample source: **Rm. 7 - 905** Sheehy Drive
DDC 10/6/98

ANALYTICAL RESULTS

Water Safety Classification: **No Coliform bacteria were detected. Therefore, the water supply, at the time of sampling, meets the EPA and DEP drinking water standards for this parameter.**

Parameter	MCL	Result
Total Coliform Bacteria, counts/100 ml	< 1	< 1
coliform bacteria, counts/100 ml		< 1
al Chlorine, mg/l as Cl		0.7

Dena Lebo 10/6/98

Results which are outside the "Maximum Contaminant Level" (MCL) established under the "Safe Drinking Water Act" are marked with asterisks (**).

Symbol key:
TNTC - Too numerous to count (> 200)
< - Less than
mg/l - milligrams/liter

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Maryann E. Fedock / President

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib > 5 um/ml**	fibers greater than 5 microns in length per ml

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm *parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per* million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	*TIC is a possible aldol-condensation product*
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TIC's only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or *microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk* of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITATION OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. We disclaim any other warranties, express or implied, including a Warranty of Fitness for Particular Purpose and Warranty of Merchantability. We accept no responsibility for the purpose for which the client uses the test results. No purchase order or other order for work shall be accepted by the company with any conditions that vary from our Standard Terms and Conditions. If Lancaster Laboratories performs work requested by the client, conditions at variance to our Standard Terms and Conditions are not part of the contract.

Analysis Report

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. G5 2865075
Collected: 1/27/98

Submitted: 1/28/98 Reported: 2/17/98
Discard: 2/28/98

Bedding Sample

Account No: 02423
Argus Research Laboratories In
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
1646	Barium	< 10.	10.	mg/kg
1649	Cadmium	< 2.0	2.0	mg/kg
1651	Chromium	< 4.0	4.0	mg/kg
1655	Lead	< 10.	10.	mg/kg
1666	Silver	< 2.0	2.0	mg/kg
6935	Arsenic TR	< 1.0	1.0	mg/kg
6936	Selenium TR	< 1.0	1.0	mg/kg
0159	Mercury	< 0.099	0.099	mg/kg
1224	Pesticides/PCBs in Solids			See Page 2
1863	Appendix IX Herbicides in Soil			See Page 3

Reviewed by
C Barnett
2/23/98

1 COPY TO Argus Research Labs., Inc. ATTN: Alan M. Hoberman, Ph D

Questions? Contact your Client Services Representative
at (717) 656-2300
600388

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EXACT COPY
SCY 5/7/98

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER ACCLE

Lancaster Laboratories
1425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. G5 2865075
Collected: 1/27/98

Submitted: 1/28/98 Reported: 2/17/98
Discard: 2/28/98

Bedding Sample

Account No: 02423
Argus Research Laboratories In
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
Pesticides/PCBs in Solids				
1981	Alpha BHC	< 4.1	4.1	ug/kg
1982	Beta BHC	< 4.1	4.1	ug/kg
1218	Gamma BHC - Lindane	< 4.1	4.1	ug/kg
1983	Delta BHC	< 4.1	4.1	ug/kg
1219	Heptachlor	< 4.1	4.1	ug/kg
1220	Aldrin	< 4.1	4.1	ug/kg
1984	Heptachlor Epoxide	< 4.1	4.1	ug/kg
1985	DDE	< 8.4	8.4	ug/kg
1986	DDD	< 8.4	8.4	ug/kg
1221	DDT	< 8.4	8.4	ug/kg
1222	Dieldrin	< 8.4	8.4	ug/kg
1223	Endrin	< 8.4	8.4	ug/kg
1859	Methoxychlor	< 41.	41.	ug/kg
1987	Chlordane	< 210.	210.	ug/kg
8	Toxaphene	< 410.	410.	ug/kg
.9	Endosulfan I	< 4.1	4.1	ug/kg
1990	Endosulfan II	< 8.4	8.4	ug/kg
1991	Endosulfan Sulfate	< 8.4	8.4	ug/kg
1992	Endrin Aldehyde	< 8.4	8.4	ug/kg
1993	PCB-1016	< 210.	210.	ug/kg
1994	PCB-1221	< 210.	210.	ug/kg
1995	PCB-1232	< 210.	210.	ug/kg
1996	PCB-1242	< 210.	210.	ug/kg
1997	PCB-1248	< 210.	210.	ug/kg
1998	PCB-1254	< 210.	210.	ug/kg
1999	PCB-1260	< 210.	210.	ug/kg

Reviewed by
2/23/98

Questions? Contact your Client Services Representative
at (717) 656-2300

EXACT COPY
SDY 5/14/98

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER ACIL

Analysis Report

Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. G5 2865075
Collected: 1/27/98

Submitted: 1/28/98 Reported: 2/17/98
Discard: 2/28/98

Bedding Sample

Account No: 02423
Argus Research Laboratories In
935 Horsham Road
Horsham PA 19044-1230

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	LIMIT OF QUANTITATION	UNITS
Appendix IX Herbicides in Soil				
4174	2,4-D	< 17.	17.	ug/kg
4176	2,4,5-TP (Silvex)	< 1.7	1.7	ug/kg

Reviewed by
J Barnett
2/23/98

EXACT COPY
SY 5/7/98

Questions? Contact your Client Services Representative
at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
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See reverse side for explanation of symbols and abbreviations

APPENDIX I

ANALYTICAL REPORT

Table of Contents

	Page
Abstract	793
Method and Results	793
Concentration	793
Appendix I - Analytical Procedure	796
Reference	796
Scope	796
Basic Principles	796
Safety Precautions	796
Apparatus and Reagents	796
Procedure	797
Calculations and Quality Assurance	798
Appendix II - Analytical Procedure Validation	800
Method	800
System Suitability	800
Spike Recovery	801
Precision	802
Calibration Relationship	802
Detection Limit	802
Figure I: Ammonium Perchlorate Calibration	804
Figure II: Typical Standard Chromatogram	805
Figure III: Low-Level Sample Chromatogram (0.5 µg/mL)	806
Figure IV: High-Level Sample Chromatogram (2000 µg/mL)	807
Figure V: Milli-Q Water Blank Chromatogram	808
Figure VI: Detection Limit Chromatogram (0.4 µg/mL)	809
Appendix III - Quality Assurance Statement	810

Abstract:

The following investigation was conducted for analytical support of Argus Research Laboratories, Inc., Study #1416-001. Concentration analyses were performed on ammonium perchlorate in drinking water during Protocol #1416-001. These analyses were performed using the method presented in Appendix I. The validation for this method has been included in Appendix II.

Method and Results:

Concentration:
Samples were analyzed by Lancaster Laboratories to determine concentration accuracy. The results of the analytical determined concentrations of each target level are tabulated below:

Lancaster Laboratories Sample #	Argus Sample Designation	Target Level (µg/mL)	Analytical Result (µg/mL)	% Difference from Target
2856463	A-(12.JAN.98)	0	ND	0
2856464	B-(12.JAN.98)	2.29	2.22	-3.1
2856465	C-(12.JAN.98)	22.94	23.3	1.6
2856466	D-(12.JAN.98)	225.88	232	2.7
2856467	E-(12.JAN.98)	50,000	51,800	3.6
2874092	A-(10.FEB.98)	0	ND	0
2874093	B-(10.FEB.98)x	2.16	2.29	6.0
2874094	B-(10.FEB.98)y	2.95	3.08	4.4
2874095	C-(10.FEB.98)x	20.46	22.0	7.5
2874096	C-(10.FEB.98)y	28.59	31.2	9.1
2874097	D-(10.FEB.98)x	212.87	231	8.5
2874098	D-(10.FEB.98)y	309.89	334	7.8
2874099	E-(10.FEB.98)	50,000	55,000	10.0
2891380	A-(10.MAR.98)	0	ND	0
2891381	B-(10.MAR.98)x	2.54	2.64	3.9
2891382	B-(10.MAR.98)y	3.92	4.00	2.0
2891383	C-(10.MAR.98)x	24.26	25.1	3.5
2891384	C-(10.MAR.98)y	35.43	37.4	5.6
2891385	D-(10.MAR.98)x	229.17	218	-4.9
2891386	D-(10.MAR.98)y	408.86	429	4.9
2891387	E-(03.MAR.98)	50,000	53,500	7.0
2906989	A-(07.APR.98)	0	ND	0
2906990	B-(07.APR.98)x	2.28	2.25	-1.3
2906991	B-(07.APR.98)y	4.46	4.40	-1.3
2906992	C-(07.APR.98)x	20.12	20.5	1.9
2906993	C-(07.APR.98)y	41.85	42.4	1.3
2906994	D-(07.APR.98)x	203.12	204	0.4
2906995	D-(07.APR.98)y	471.18	477	1.2
2906996	E-(24.MAR.98)	50,000	51,800	3.6

Argus Protocol #1416-001

Lancaster Laboratories Sample #	Argus Sample Designation	Target Level (µg/mL)	Analytical Result (µg/mL)	% Difference from Target
2923074	A-(05.MAY.98)	0	ND	0
2923075	B-(05.MAY.98)x	1.00	1.49	49
2923076	B-(05.MAY.98)y	5.28	7.23	37
2923077	C-(05.MAY.98)x	11.27	14.6	30
2923078	C-(05.MAY.98)y	51.40	58.5	14
2923079	D-(05.MAY.98)x	107.88	110	2.0
2923080	D-(05.MAY.98)y	501.67	508	1.3
2923081	E-(05.MAY.98)	50,000	51,300	2.6
2923082	B-(05.MAY.98)z	1.20	1.28	6.7
2923083	C-(05.MAY.98)z	12.00	12.4	3.3
2923084	D-(05.MAY.98)z	120.00	122	1.7
2938562	A-(02.JUN.98)	0	ND	0
2938563	B-(02.JUN.98)x	1.92	1.96	2.1
2938564	B-(02.JUN.98)y	2.35	2.42	3.0
2938565	C-(02.JUN.98)x	18.78	19.6	4.4
2938566	C-(02.JUN.98)y	23.36	24.3	4.0
2938567	D-(02.JUN.98)x	192.22	195	1.4
2938568	D-(02.JUN.98)y	230.36	234	1.6
2938569	E-(26.MAY.98)	50,000	52,500	5.0
2963703	A-(14.JUL.98)	0	ND	0
2963704	B-(14.JUL.98)x	2.22	2.12	-4.5
2963705	B-(14.JUL.98)y	3.29	3.22	-2.1
2963706	C-(14.JUL.98)x	19.95	20.6	3.3
2963707	C-(14.JUL.98)y	31.66	33.0	4.2
2963708	D-(14.JUL.98)x	183.91	186	1.1
2963709	D-(14.JUL.98)y	324.00	331	2.2
2963710	E-(30.JUN.98)	50,000	53,000	6.0
2980302	A-(11.AUG.98)	0	ND	0
2980303	B-(11.AUG.98)x	1.62	1.63	0.6
2980304	B-(11.AUG.98)y	3.95	3.90	-1.3
2980305	C-(11.AUG.98)x	18.74	20.0	6.7
2980306	C-(11.AUG.98)y	36.32	38.1	4.9
2980307	D-(11.AUG.98)x	184.44	193	4.6
2980308	D-(11.AUG.98)y	352.34	364	3.3
2980309	E-(28.JUL.98)	50,000	53,300	6.6

Argus Protocol #1416-001

Lancaster Laboratories Sample #	Argus Sample Designation	Target Level (µg/mL)	Analytical Result (µg/mL)	% Difference from Target
2996248	A-(08.SEP.98)	0	ND	0
2996249	B-(08.SEP.98)x	0.96	0.95	-1.0
2996250	B-(08.SEP.98)y	4.50	4.39	-2.4
2996251	C-(08.SEP.98)x	9.96	10.0	0.4
2996252	C-(08.SEP.98)y	36.35	36.9	1.5
2996253	D-(08.SEP.98)x	97.84	97.7	-0.1
2996254	D-(08.SEP.98)y	428.57	427	-0.4
2996255	E-(18.AUG.98)	50,000	52,000	4.0

Approved by: Melanie D. Rittenhouse Date: 9-22-98

Melanie D. Rittenhouse

Title: Principal Chemist

Lancaster Laboratories
A division of Thermo Analytical Inc.
Where quality is a science.

Appendix I
Analytical Procedure
Ammonium Perchlorate in
Drinking Water

Reference:

Tsui, David T. and Latha Narayanan, "Analysis of Perchlorate and Nitrate in Drinking Water," SOP NO: AC-97-036, dated 08/21/97 (sent by client).

All analytical work was conducted by Lancaster Laboratories.

Scope:

Applicable to the determination of ammonium perchlorate in drinking water.

Basic Principles:

The analytical procedure consists of diluting aliquots to the appropriate concentrations in Milli-Q water and analyzing for the perchlorate ion concentration using an ion chromatography system equipped with a conductivity detector.

Safety Precautions:

Follow all general laboratory procedures. Take general precautions when handling ammonium perchlorate which is explosive when heated.

Apparatus and Reagents:

1. Dionex X500 ion chromatography system equipped with an ED40 electrochemical detector or equivalent
2. Dionex ASRS-II self-generating suppressor or equivalent
3. Dionex anion trap column (ATC-1) or equivalent
4. Chrom Perfect or equivalent
5. Dionex IonPac AS11, 4.0 x 250 mm, analytical column
6. Dionex IonPac AG11 (4.0 x 50 mm) guard column
7. Routine laboratory equipment and glassware
8. Methanol, HPLC grade or equivalent

9. Milli-Q water (≈18 Ω) or equivalent
10. 50% (w/w) sodium hydroxide solution available from Baker or equivalent.
11. Mobile phase (100 mM NaOH in 90 Milli-Q water:10 methanol) - Add 16.0 g of 50% (w/w) NaOH to enough 90 Milli-Q:10 methanol to equal 2 L. Vacuum filter the eluent through a nylon membrane.
12. Ammonium perchlorate analytical standard - Aldrich, purity 99.8%, supplied by the sponsor and additionally obtained by Lancaster Laboratories from Aldrich. Store at room temperature. Lot number will be documented as part of the raw data.
13. Stock standard - Accurately weigh 1000 mg to the nearest 0.1 mg of ammonium perchlorate standard into a 200-mL volumetric flask. Dissolve in Milli-Q water and dilute to volume. The necessity of preparing a fresh standard is dependent upon the standard stability in solution. See Appendix II for this data. Use the ammonium perchlorate standard as 100% in purity.
14. Intermediate standard - Dilute 5.0 mL of the stock solution to 100.0 mL with Milli-Q water (concentration = 250 µg/mL).
15. Working standard solutions - Dilute aliquots of the intermediate higher concentration working standards to achieve the following recommended concentrations: 50, 35, 20, 10, 5.6, 2.8, 1.0, 0.5, and 0.1 µg/mL.
16. Spike preparation - Spikes should be prepared to simulate the lowest and highest sample concentrations in the analysis. Spiking solutions may be pipetted or standard weighed and added to the appropriate volume of Milli-Q water.

Procedure:

A. Sample preparation

1. For drinking water samples where the estimated concentration is within the calibration range, analyze as received.
2. For drinking water samples where the target concentration is above the calibration range, dilute appropriately with Milli-Q water to obtain a final solution that is within the calibration range.

B. HPLC determination

1. Set the IC as described in the Apparatus section to the following conditions:

Suppressor	500	mA
Regenerant water flow	>9	mL/min
Conductivity Range	50	µS
Oven Temperature	30	°C
Injection volume	50	µL
Flow rate	1	mL/min

(These conditions may be changed for optimization.)

2. After the column has equilibrated, make 50-µL injections of a standard until peak heights and retention times are consistent.

3. Inject 50 µL of each sample and standard. A standard curve solution should be run after every four sample injections.

Calculations and Quality Assurance Requirements:

1. Calibration may be performed prior to running the samples, while the samples are run, or after all samples are run. Any curve may be used providing standard continuity is maintained throughout the run. Run at least five different concentrations of the stock standard for a standard curve.

2. Use the quadratic fit with reciprocal of standard concentration weighting for the calibration curve. This method of calibration is available with Chrom Perfect. The correlation coefficient must be ≥0.995. Calculate the ammonium perchlorate concentrations in the samples using this calibration.

3. When calculated against the calibration curve, the check standards should not deviate from the nominal concentration by more than ±5%. If the standard is outside of this range, consult SOP-GLP-030, "Statistical Evaluation of Chromatographic Data Used for Support of Toxicology Studies for Client #2423."

4. Spike recovery should be performed at both the highest and lowest target concentrations of ammonium perchlorate in the samples. If only one level is being tested, one spike prepared to simulate the level is necessary.

5. Spike recoveries should be 90% to 110%. If a spike recovery is outside of this range, consult SOP-GLP-030.

NOTE: All sample responses must fall within the standard curve.

NS03222.DOC
022598

Analytical Procedure
Analysis #NS-03-222
Initiated Date: 02/24/98
Effective Date: FEB 2 5 1998

Prepared by: Melanie D. Rittenhouse Date: 2-25-98
Melanie D. Rittenhouse, Ph.D.

Title: Principal Chemist

Approved by: Jeanine L. Schreiber Date: 2-25-98
Jeanine L. Schreiber

Title: Chemist Coordinator

Approved by: David J. Weiser Date: 2-25-98
David J. Weiser

Title: Senior QA Specialist

Appendix II
Analytical Procedure Validation
Ammonium Perchlorate in
Drinking Water

The analytical method was validated for the determination of ammonium perchlorate in drinking water. Ten samples of the 2000-µg/mL level and five samples of the 0.5-µg/mL level were tested to ensure method precision. Spikes in Milli-Q water were prepared and analyzed to demonstrate recovery. Linearity and a stability check of standard solutions were performed to demonstrate adequacy of the method. The method validation consisted of the following:

Method:

1. Blank preparation - Reverse osmosis deionized water containing 0 µg/mL of ammonium perchlorate was supplied by Argus. Comparison of the Argus laboratory water with Lancaster Laboratories Milli-Q water showed both contained no interferences over the elution range of the perchlorate ion.

2. Stock Spiking Solution - 200 mg of ammonium perchlorate were weighed into a volumetric and diluted to 100.0 mL with Milli-Q water (concentration = 2000 µg/mL).

3. Spike sample preparation - Spikes were prepared at the 0.5-µg/mL and 2000-µg/mL levels.

   The 2000-µg/mL spikes were prepared by diluting 2.0 mL of the stock spiking solution to 200.0 mL with Milli-Q water (concentration = 20 µg/mL).

   The 0.5-µg/mL spiked samples were prepared by diluting 2.5 mL of the 20-µg/mL high-level solution to 100.0 mL with Milli-Q water.

System Suitability:

1. There are no peaks in the chromatograms that interfere with the ammonium perchlorate peak; therefore, no resolution determinations were made. The baseline, however, does exhibit a cyclic pattern of low broad variations that may be integrated as peaks depending on the selected integration parameters. The smoothness of the baseline appears dependent on the regenerant water flow through the suppressor. For this reason, the flow should always be above approximately 9 mL/min and may have to be increased further when additional smoothing of the baseline is required.

2. To ensure stability of ammonium perchlorate in the analysis solvent, five replicates of a standard solution stored at ambient temperature for 16 days were analyzed against a freshly prepared standard solution. The calculated response factors were averaged for each standard and the ratio of the average response factors was compared as described in Lancaster Laboratories SOP-GLP-029, "Validation of Chromatographic Methods Used for Support of GLP Toxicology Studies for Client #2423." The results are as follows:

	Stored Standard Response Factors (×10-6)		Fresh Standard Response Factors (×10 - 6)
	8.4567		8.2954
	8.4260		8.2428
	8.3464		8.2450
	8.3791		8.1675
	8.3832		8.4664
Mean (Rf1) =	8.3983	Mean (Rf2) =	8.2834
RSD =	0.5	RSD =	1.4

$$\frac{Rf2}{Rf1} = 0.99 \text{ and } 0.98 < Rf2/Rf1 < 1.02$$

The relative standard deviations of the response factors for both sets of data are less than or equal to ±2.0%.

The evaluation of the data indicates that the areas are statistically similar. All analytical runs should fall within a 16-day period.

Spike Recovery:

The recovery results for the spikes prepared with Milli-Q water were as follows:

Date	Spike Concentration (µg/mL)	Quantity Recovered (µg/mL)		Percent Recovered (%)
	2029	2038		100
	2064	2079		101
	2034	2045		101
	2006	2015		100
	1962	1977		101
			Mean =	101% recovery
			RSD =	0.5%

Date	Spike Concentration (µg/mL)	Quantity Recovered (µg/mL)		Percent Recovered (%)
	0.5072	0.5427		107
	0.5160	0.5294		103
	0.5086	0.5401		106
	0.5016	0.5533		110
	0.4905	0.5016		102
			Mean =	106% recovery
			RSD =	3.0%

Precision:

Precision was checked using samples from each of two concentration levels. These samples were analyzed by a Lancaster Laboratories' employee to validate precision. The following data indicates acceptable precision

Target Level (µg/mL)	Argus Sample Designation	Replicate Number		Quantity Found (µg/mL)
2000	B-1416-002-H (13.JAN.98)	1		2001
2000	B-1416-002-H (13.JAN.98)	2		1984
2000	B-1416-002-H (13.JAN.98)	3		2013
2000	B-1416-002-H (13.JAN.98)	4		2025
2000	B-1416-002-H (13.JAN.98)	5		1989
2000	B-1416-002-H (13.JAN.98)	6		1986
2000	B-1416-002-H (13.JAN.98)	7		2031
2000	B-1416-002-H (13.JAN.98)	8		2017
2000	B-1416-002-H (13.JAN.98)	9		2004
2000	B-1416-002-H (13.JAN.98)	10		2007
			Mean =	2006 µg/mL
			RSD =	1.0%
0.5	B-1416-001-F (29.JAN.98)	1		0.476
0.5	B-1416-001-F (29.JAN.98)	2		0.494
0.5	B-1416-001-F (29.JAN.98)	3		0.476
0.5	B-1416-001-F (29.JAN.98)	4		0.518
0.5	B-1416-001-F (29.JAN.98)	5		0.543
			Mean =	0.501 µg/mL
			RSD =	5.8%

Calibration Relationship:

To ensure the accuracy of the results, a study of the detector response versus ammonium perchlorate concentrations was conducted. Solutions of ammonium perchlorate ranging in concentration from 50 µg/mL to 0.1 µg/mL were chromatographed and plotted (see Figure I). The perchlorate ion has a strong interaction with the column stationary phase selected for this method. This can be seen in the retention time shifts and peak shape changes that occur with concentration changes. As the concentration of the perchlorate ion on the column increases, its retention time decreases and chromatographed peak shape shows greater peak tailing. An acceptable calibration, however, was attained using a quadratic fit with reciprocal concentration weighting. The quadratic fit follows the non-linear curvature of the calibration response and the weighting treatment gives better correlation as concentration decreases. All ammonium perchlorate determinations were chromatographed at concentrations within this calibration range.

Detection Limit:

The lowest concentration of ammonium perchlorate standard which could be detected, 0.04 µg/mL, describes the instrument detection limit and in this case is also equivalent to the limit of detection. Samples that show no detectable signal or are below the region of less-certain quantitation (<LOD) are reported as "none detected" (ND).

Limit of quantitation (LOQ) is defined as the level above which quantitation results may be obtained with a specified degree of confidence. The LOQ for this method is 0.5 mg/mL. The lowest standard, 0.1 mg/mL, is included in the calibration to better define the y-intercept.

NS03222.DOC
022598

Prepared by: Melanie D. Rittenhouse Date: 2-25-98
Melanie D. Rittenhouse, Ph.D.

Title: Principal Chemist

Approved by: Jeanine L. Schreiber Date: 2.25.98
Jeanine L. Schreiber

Title: Senior Chemist Coordinator

Approved by: David J. Weiser Date: 2-25-98
David J. Weiser

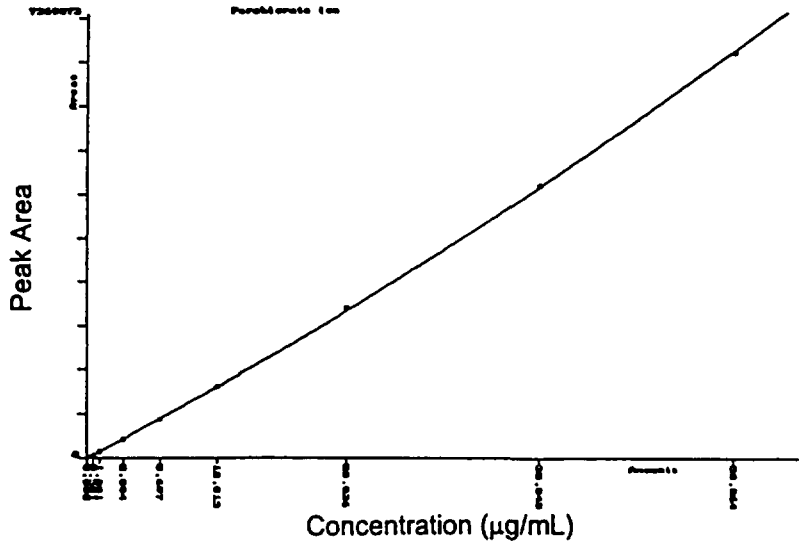
Title: Senior QA Specialist

Figure I: Ammonium Perchlorate Calibration

Quadratic with (1/amount) weighting

$y = -2839 + 112430\,x + 444.86\,x^2$

$r = 0.9999$



LEVEL	AMOUNT	AREA	Source	Date Updated
1	50.06400	6700043	98030000.03R	01-30-1998 10:27
2	35.04500	4518233	98030000.04R	01-30-1998 10:38
3	20.02600	2470694	98030000.05R	01-30-1998 10:49
4	10.01300	1162937	98030000.06R	01-30-1998 11:00
5	5.60720	631365	98030000.07R	01-30-1998 11:11
6	2.80360	301409	98030000.08R	01-30-1998 11:22
7	1.00130	104730	98030000.09R	01-30-1998 11:33
8	0.50064	51759	98030000.10R	01-30-1998 11:44
9	0.10013	9742	98030000.11R	01-30-1998 11:55

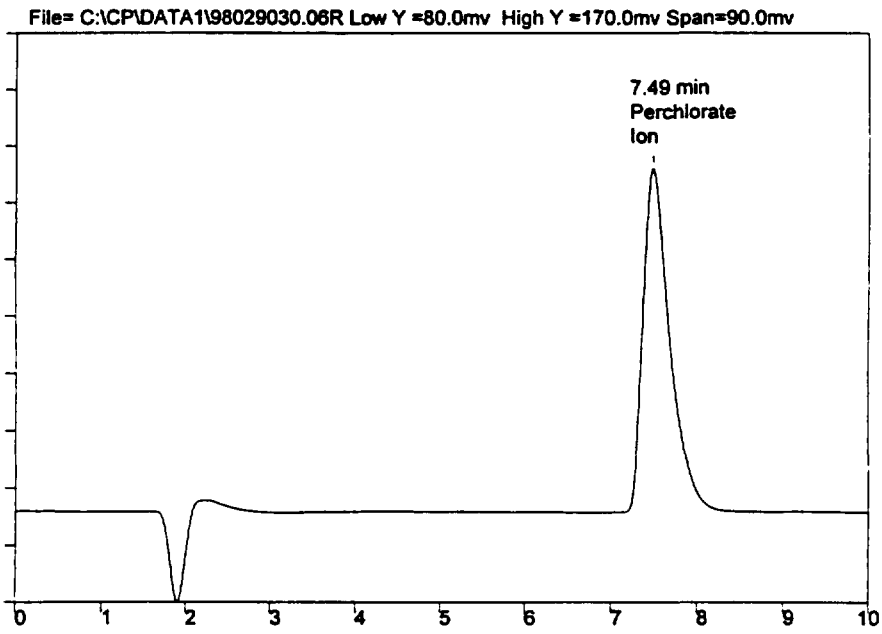


Figure II: Typical Standard Chromatogram

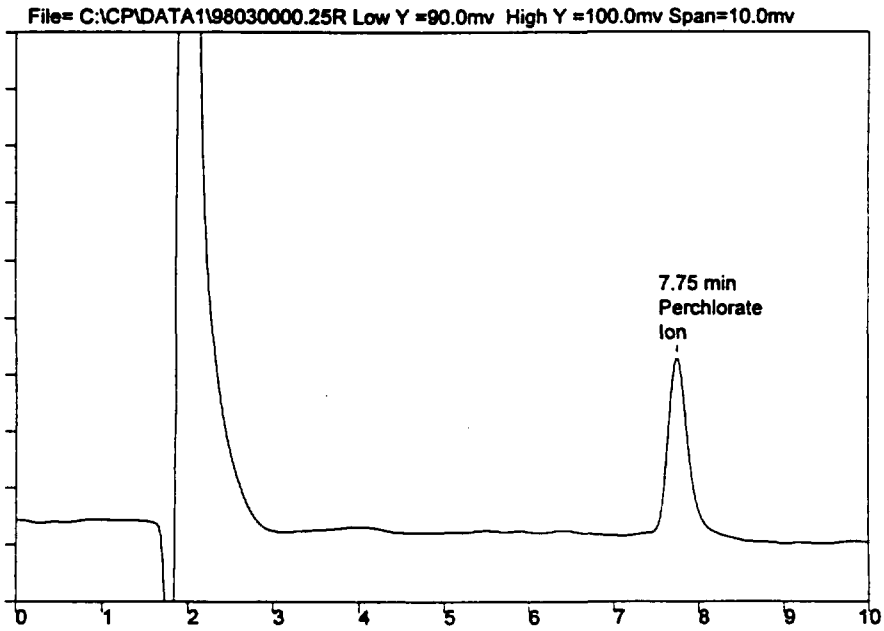


Figure III: Low-Level Sample Chromatogram (0.5 μg/mL)

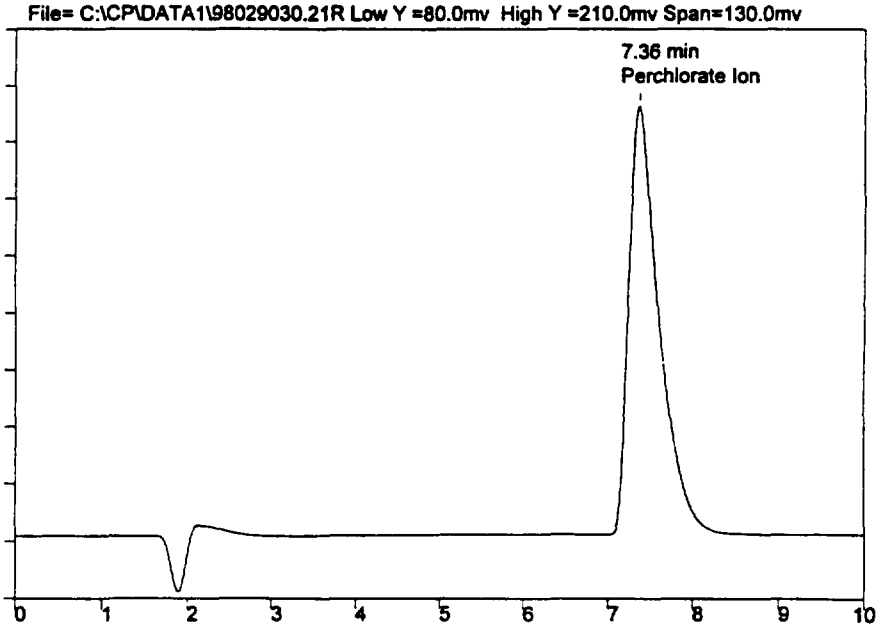


Figure IV: High-Level Sample Chromatogram (2000 μg/mL)

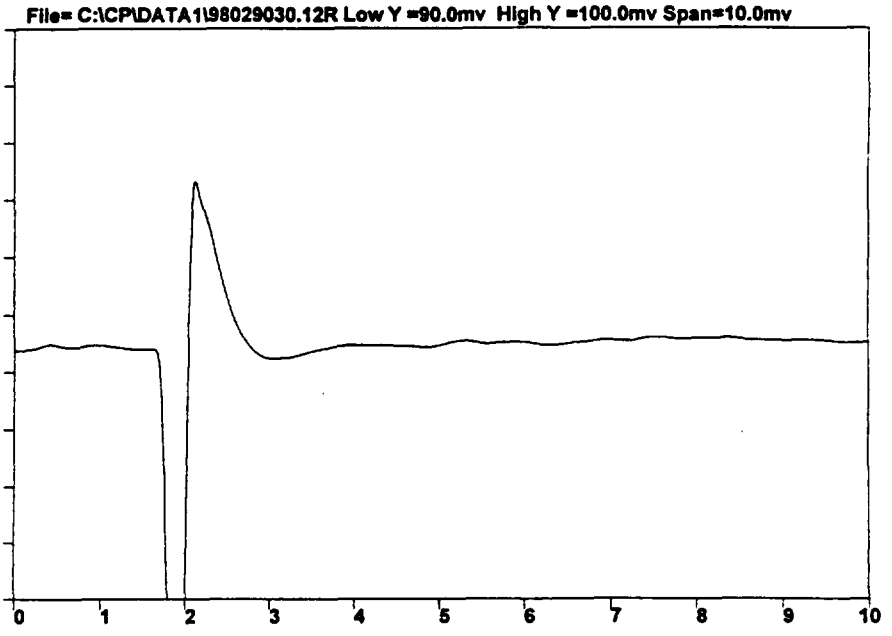


Figure V: Milli-Q Water Blank Chromatogram

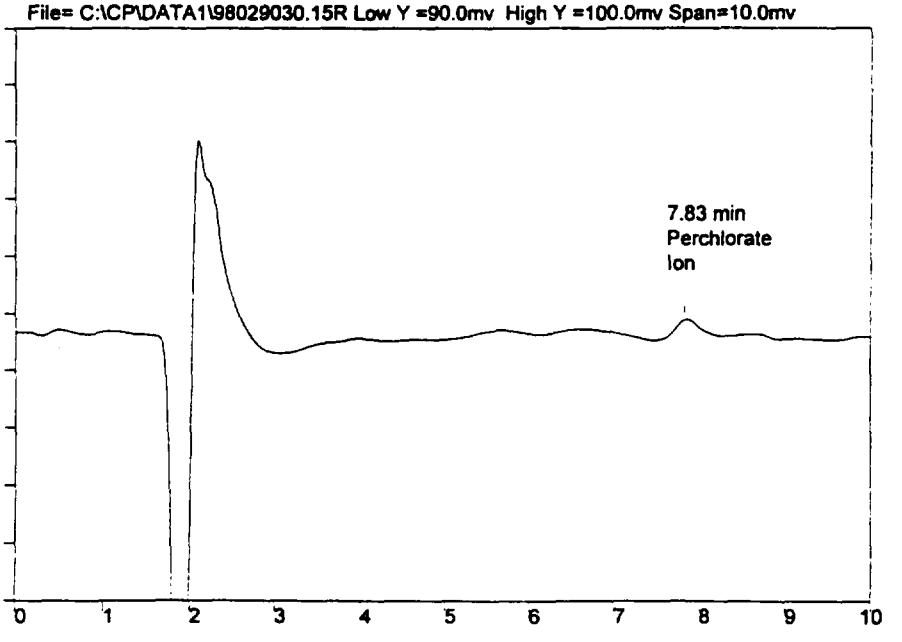


Figure VI: Detection Limit Chromatogram (0.04 µg/mL)

Appendix III

Quality Assurance Statement

Argus Protocol Number: 1416-001

Argus Research study number 1416-001 was inspected on February 26, 1998 in accordance with the U.S. EPA TSCA Good Laboratory Practice regulations (40 CFR Part 792). The critical phases inspected included:

1. Observation of the dilution and transfer of study sample to autosampler vials.
2. Review of standard curve on instrument.
3. An audit of the labeling of some of the reagents used during this procedure.
4. A review of the instrument qualification records for the Ion Chromatograph used during this procedure.
5. A review of the Ion Chromatograph setup parameters.
6. An audit of the training records for the analyst performing this procedure.

The results of this inspection were sent to Lancaster Laboratories' management on May 12, 1998 and to the study director at Argus on May 13, 1998.

The final report and raw data for Argus study 1416-001 were compared and audited for accuracy by the Lancaster Laboratories' Quality Assurance Unit.

Quality Assurance Senior Specialist

9.23.98
Date

APPENDIX J

HISTOPATHOLOGY REPORT

RESEARCH PATHOLOGY SERVICES, INC.

438 East Butler Avenue, New Britain, PA 18901
Phone: 215-345-7070 • Fax: 215-345-4326

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

SUBMITTED TO:

Raymond G. York, Ph.D., D.A.B.T.
Argus Research Laboratories, Inc.
905 Sheehy Drive
Horsham, PA 19044

SUBMITTED BY:

W. Ray Brown April 7, 1999

W. Ray Brown, D.V.M., Ph.D.
Veterinary Pathologist

April 7, 1999

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

TABLE OF CONTENTS

Page

REPORT

Method 1

Results 5

Summary 9

Quality Assurance Unit Statement 10

TABLES

1. Incidence and Degree of Severity of Histomorphologic Observations – P1 Generation 11
2. Incidence and Degree of Severity of Histomorphologic Observations – F1 Generation 21
3. Incidence and Degree of Severity of Histomorphologic Observations – F1 Weanlings 30
3. Incidence and Degree of Severity of Histomorphologic Observations – F2 Weanlings 31

APPENDICES

I. Histomorphologic Observations – P1 Generation ..... I-1 to I-46

Key to Histomorphologic Observations I-1

Tables

I-1. Histomorphologic Observations - Group 1 Male Rats I-2
I-2. Histomorphologic Observations - Group 2 Male Rats I-11
I-3. Histomorphologic Observations - Group 3 Male Rats I-14
I-4. Histomorphologic Observations - Group 4 Male Rats I-17
I-5. Histomorphologic Observations - Group 1 Female Rats I-26
I-6. Histomorphologic Observations - Group 2 Female Rats I-35
I-7. Histomorphologic Observations - Group 3 Female Rats I-38
I-8. Histomorphologic Observations - Group 4 Female Rats I-41

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

TABLE OF CONTENTS
(Continued)

Page

II. Histomorphologic Observations – F1 Generation ..... II-1 to II-44

Key to Histomorphologic Observations II-1

Tables

II-1. Histomorphologic Observations - Group 1 Male Rats II-2
II-2. Histomorphologic Observations - Group 2 Male Rats II-11
II-3. Histomorphologic Observations - Group 3 Male Rats II-14
II-4. Histomorphologic Observations - Group 4 Male Rats II-17
II-5. Histomorphologic Observations - Group 1 Female Rats II-26
II-6. Histomorphologic Observations - Group 2 Female Rats II-32
II-7. Histomorphologic Observations - Group 3 Female Rats II-35
II-8. Histomorphologic Observations - Group 4 Female Rats II-38

III. Histomorphologic Observations – F1 Weanlings ..... III-1 to III-9

Key to Histomorphologic Observations III-1

Tables

III-1. Histomorphologic Observations - Group 1 Male Weanlings III-2
III-2. Histomorphologic Observations - Group 2 Male Weanlings III-3
III-3. Histomorphologic Observations - Group 3 Male Weanlings III-4
III-4. Histomorphologic Observations - Group 4 Male Weanlings III-5
III-1. Histomorphologic Observations - Group 1 Female Weanlings III-6
III-2. Histomorphologic Observations - Group 2 Female Weanlings III-7
III-3. Histomorphologic Observations - Group 3 Female Weanlings III-8
III-4. Histomorphologic Observations - Group 4 Female Weanlings III-9

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

TABLE OF CONTENTS
(Continued)

Page

IV. Histomorphologic Observations – F2 Generation Weanlings ..... IV-1 to IV-9

Key to Histomorphologic Observations IV-1

Tables

IV-1. Histomorphologic Observations - Group 1 Male Weanlings IV-2
IV-2. Histomorphologic Observations - Group 2 Male Weanlings IV-3
IV-3. Histomorphologic Observations - Group 3 Male Weanlings IV-4
IV-4. Histomorphologic Observations - Group 4 Male Weanlings IV-5
IV-5. Histomorphologic Observations - Group 1 Female Weanlings IV-6
IV-6. Histomorphologic Observations - Group 2 Female Weanlings IV-7
IV-7. Histomorphologic Observations - Group 3 Female Weanlings IV-8
IV-8. Histomorphologic Observations - Group 4 Female Weanlings IV-9

V. Individual Animal Gross and Histomorphology Data - P1 Generation ..... V-1 to V-220

VI. Individual Animal Gross and Histomorphology Data - F1 Generation ..... VI-1 to VI-220

VII. Pup Gross Lesions VII-1

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

METHOD:

Microscopic examination was made of the specified tissues from male and female Crl:CD®BR VAF/Plus® (Sprague-Dawley) rats divided into four groups used in a two-generation reproduction study of ammonium perchlorate. A brief outline of the study design is shown below.

Group	Number of Parental Rats/Group Examined P1	F1	Target Dosage (mg/kg/day)	Concentration (µg/mL)[a]
1	30M,28F	30M,20F	0 (Carrier)[b]	0
2	30M,22F	30M,27F	0.3	2.3
3	30M,26F	30M,28F	3.0	22.8
4	30M,24F	30M,25F	30.0	227.4

[a]Based on average water consumption of 33 mL/animal/day (132 mL/kg/day) for a 250g rat. These concentrations were adjusted weekly based on actual body weight and water consumption levels recorded the previous week. The test substance was considered 100% pure for the purpose of dosage calculations.
[b]Reverse osmosis membrane processed deionized water (R. O. deionized water).

P1 generation rats were given continual access to the test substance in the drinking water beginning at least 70 days before cohabitation (approximately six weeks of age) and continuing through the day of sacrifice. Rats of the F1 generation were given the same test substance concentrations as their respective P1 generation sires and dams once daily beginning at weaning and continued through the day of sacrifice. Rats of this generation may have been exposed *in utero* during gestation and via maternal milk and water during the postpartum period. F2 generation pups were not directly given the test substance but may have been possibly exposed to the test substance during maternal gestation (*in utero* exposure) or via maternal milk during the lactation period.

The in-life portion of the study, necropsies, and recording of the gross necropsy observations were performed by the staff of Argus Research Laboratories, Inc. The preserved tissues were then submitted to Research Pathology Services, Inc. for tissue processing, microscopic slide preparation and histopathologic evalua-

tion. The protocol-specified tissues were routinely processed, embedded in paraffin, sectioned, and stained with hematoxylin and eosin for microscopic evaluation.

As per protocol, microscopic evaluation was made of adult male rats of all groups and parental female rats (females that had litters) from the control and all test substance treatment groups.

The tissues specified for microscopic evaluation from the P1 and F1 adult parental rats of the control and high dosage groups included adrenal glands, aorta, bone and bone marrow (femur), brain, cecum, colon, duodenum, esophagus, eyes, heart, ileum, jejunum, kidneys, liver, lung, lymph nodes (mandibular and mesenteric), mammary gland, skeletal muscle, sciatic nerve, pancreas, parathyroid, pituitary, rectum, salivary gland, skin, spinal cord (cervical, lumbar and thoracic), spleen, stomach, thymus, thyroid, trachea, urinary bladder, Zymbal's gland, and right testis, epididymides, prostate and seminal vesicles (male rats) or ovaries, uterus, cervix and vagina (female rats). Microscopic examination of the adult P1 and F1 generation male and parental female rats of the intermediate dosage groups was limited to the thyroid gland. The thyroid gland was also examined from one male and one female F1 and F2 weanling per litter, when available. In addition, sections of gross lesions collected were examined from all rats of all groups.

Microscopic examination of the thyroid gland was made initially from all dose groups with knowledge of treatment group. The treatment-related effects in the mid and high dose groups were quite obvious microscopically, but the histomorphology of the thyroid of the low dose animals was somewhat equivocal. Therefore, the thyroids from the control and low dose animals of both adult generations were examined on a blind basis in that there was no knowledge of the dose group identification. Microscopic examination of the F1 and F2 weanlings of all groups was done on a "blinded" basis.

The grading scale used for the thyroid, as well as all other tissues examined, was as follows: minimal, mild, moderate, and marked. The criteria for this grading scheme is presented on page 4.

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

The statistical analysis of the thyroid hypertrophy and hyperplasia incidence data using the "Proport" version of 12-Oct-87 of the Chi-square test was provided by Argus Research Laboratories of Primedica.

Upon completion of the project, all raw data (remaining wet tissue, paraffin blocks, microscopic slides and histology records) will be returned to Argus Research Laboratories, Inc. for archiving.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

RESEARCH PATHOLOGY SERVICES, INC.
Grading System for the Microscopic Evaluation
Toxicity, Reproduction, and Carcinogenicity Studies in Laboratory Animals

The grading system utilized by Research Pathology Services, Inc. is based on a four-point scale: minimal, mild, moderate, and marked. The grading of histomorphologic findings with the light microscope is a very subjective evaluation in which many factors are taken into consideration when a grade is assigned. Such factors include the amount and/or extent of the specified finding with regard to the overall section or sections available for examination. The evaluation is an estimate of both the qualitative as well as the quantitative degree of involvement. It must be emphasized that when a quantitative factor is considered it is merely an "estimate" and is based on the overall impression of involvement of the section(s) with regard to number of cells, structures, etc. involved and not an actual count or measurement. Modifiers such as focal, multifocal, diffuse, unilateral or bilateral are also utilized in the evaluation and are considered when a grade is assigned. The following are the grades and a brief description of each:

1 = Minimal — The least amount or degree or change discernible by the light microscope which is judged to barely exceed normal limits.

2 = Mild — This amount or degree of change is easily detected, but generally still is of limited degree, amount or intensity. Other adjectives that may be used for this degree would be slight, small, few, etc.

3 = Moderate — This amount or degree of change is clearly visible and usually there are relatively extensive and prominent changes visible. This level in this scale would indicate that relatively large, multiple, and/or the majority of cells, structures, or components of the organ are involved and the change is notably increased over a Grade 2 reaction.

4 = Marked — This is the highest severity of this scale and generally indicates that the lesion is approaching the most severe or extensive level that could be attained. This would indicate that essentially all areas of the section or cells are involved to a very significant degree.

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

RESULTS:

The type, incidence and degree of severity of histomorphologic observations in the P1 and F1 generation adult rats and the F1 and F2 weanlings are summarized in Tables 1 to 4, respectively. Individual microscopic findings from the P1 and F1 generation adult rats and F1 and F2 generation weanlings are presented in tabular form in Appendices I, II, III, and IV, respectively. A key to the individual microscopic observations precedes Table I-1, Table II-1, Table III-1 and Table IV-1. The gross necropsy observations, microscopic findings, and a correlation of the gross and microscopic changes, when applicable, are included in Appendices V and VI for the P1 and F1 generation parental adult rats, respectively.

Parental Rats (Tables 1, 2, I-1 to I-8, II-1 to II-8, Appendices, V and VI):

The only tissue in which a treatment-related change occurred was the thyroid gland. This change occurred in male and female adults rats of the P1 and F1 generations and consisted of hypertrophy and hyperplasia of the thyroid follicular epithelium. In many of the affected thyroids, there were increased numbers of small follicles (hyperplasia) and these follicles had enlarged (hypertrophied) follicular epithelial cells. In the thyroids with a moderate or marked hyperplasia/hypertrophy, there was a decrease or complete absence of visible colloid in the affected follicles. The incidence by degree of severity of the thyroid changes in the P1 generation male and female rats is presented in the following text table.

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Thyroids Examined:	30	30	30	30	28	21	26	24
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium								
minimal	0	2	1	0	2	4	4	0
mild	1	5	5	0	1	3	8	0
moderate	1	2	11	1	1	3	8	2
marked	0	0	8	29	0	0	0	22
Total Incidence	2	9	25**	30**	4	10	20**	24**

**Significantly different from control at P < 0.01

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

The same information is presented in the following text table for the F1 generation parental male and female rats.

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Thyroids Examined:	30	30	30	30	20	27	27	25
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium								
minimal	0	0	3	0	4	5	6	1
mild	3	4	5	0	2	1	6	2
moderate	2	4	5	3	0	0	1	10
marked	0	0	6	23	0	0	0	11
Total Incidence	5	8	19**	26**	6	6	13	24**

**Significantly different from control at P < 0.01

Statistical analysis of the incidence of male and female P1 and F1 generation rats with thyroid follicular hypertrophy and hyperplasia revealed a statistically significant increased incidence in male and female rats of the mid and high dosage group P1 generation rats and male rats of the F1 generation. Only the high dose female rats of the F1 generation showed a statistically significant increased incidence. Although not statistically significant, the incidence in the mid dose F1 generation female rats also appeared to be increased. The incidence in the low dose F1 generation rats was considered to be comparable to the controls. There were a few control male and female rats in both generations with a similar type of histomorphologic change in the thyroid, but with a lower incidence as compared to the mid and high dosage group animals. Also, the severity of the thyroid hypertrophy and hyperplasia was increased in the affected dosage groups of male and female rats.

There were no other tissues with treatment-related changes in any of the P1 or F1 generation parental rats given 30.0 mg/kg/day of the test substance for the respective treatment periods. The other changes that were observed were typical of those that occur spontaneously in male and female rats used in reproductive studies and their type or incidence was not considered to have been influenced by admini-

stration of the test substance. These changes are also listed and summarized in the attached Tables 1 and 2.

Weanling Rats (Tables 3, 4, III-1 to III-8, and IV-1 to IV-8):

The results of the microscopic examination of the thyroid glands from the weanling rats revealed a treatment-related increased incidence and intensity of hypertrophy and hyperplasia of the thyroid follicular epithelium in F1 and F2 male and female weanlings of Groups 3 and 4. The following text tables show the incidence and severity of this thyroid change in the F1 and F2 weanlings.

	F1 Weanlings							
Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Thyroids Examined^:	28	22	25	23	28	22	24	23
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium								
minimal	2	3	3	3	1	3	9	0
mild	1	1	10	8	2	2	4	3
moderate	0	0	1	10	0	0	3	13
marked	0	0	0	2	0	0	0	7
Total Incidence	3	4	14	23**	3	5	16*	23**

^The thyroid gland was examined from one male and one female weanling per litter, when available.
*Significantly different from control at P < 0.05
**Significantly different from control at P < 0.01

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

	F2 Weanlings							
Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Thyroids Examined^:	20	27	28	25	20	27	28	25
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium								
minimal	1	0	10	1	1	3	6	2
mild	0	2	6	1	0	0	10	3
moderate	0	0	1	14	0	0	2	15
marked	0	0	0	6	0	0	0	5
Total Incidence	1	2	17*	22**	1	3	18*	25**

^The thyroid gland was examined from one male and one female weanling per litter, when available.
*Significantly different from control at P < 0.05
**Significantly different from control at P < 0.01

Although the incidence of Group 3 F1 male weanlings was not statistically significant, there was an increased incidence of the thyroid effect in this group and the histomorphology of the thyroid change in these weanlings was comparable to the high dose and is still considered to be a treatment-related effect in this group. Also, the intensity of the thyroid follicular hypertrophy and hyperplasia was increased in the affected Groups 3 and 4 weanlings.

A low incidence of this finding was observed in the control and low dose F1 and F2 weanlings, but there was no difference in the incidence or severity of this change between the control and low dose weanlings.

The only other finding in the thyroid gland of the weanlings was an occasional ultimobranchial body/cyst which are congenital remnants that commonly are found in the thyroid gland of rats and the incidence of this finding was not influenced by test substance administration.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

Summary:

Microscopic examination was made of the specified tissues, including the thyroid gland, from parental male and female rats of the P1 and F1 generations and F1 and F2 weanling rats of an oral (drinking water) two generation reproduction study of ammonium perchlorate. The dosages used in the study were 0 (carrier), 0.3, 3.0, or 30.0 mg/kg/day.

No treatment-related microscopic changes were observed in any of the organs and tissues specified for examination from the P1 and F1 parental rats given 0.3 mg/kg/day of ammonium perchlorate for the specified treatment period. There were also no treatment-related microscopic changes observed in the F1 and F2 weanling rats indirectly exposed to the test substance (either *in utero* or via maternal milk and/or water).

Treatment-related microscopic changes were observed in the thyroid gland of the parental male and female rats of the P1 and F1 generations that had been given 3.0 or 30.0 mg/kg/day or weanling rats of the F1 and F2 generations indirectly exposed (either *in utero* or via maternal milk and/or water) to the same dosage levels for the specified periods of time.

The treatment-related thyroid change consisted of an increased incidence and severity of follicular epithelial hypertrophy and hyperplasia. The incidence and severity of the change occurred in a dose-related manner. There were a few control and low dose group parental and weanling rats with a similar histologic change but the incidence and severity in the low dose group were not considered to be different from the controls and not compound-related.

There were no microscopic changes in the reproductive tissues of any of the parental animals that were treatment-related. The changes in these tissues, as well as in all other organs and tissues specified for examination from the P1 and F1 generation parental male and female rats given 30.0 mg/kg/day of ammonium perchlorate were considered to have occurred spontaneously and to be unrelated to treatment.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

QUALITY ASSURANCE UNIT STATMENT

All aspects of the tissue processing, microscopic slide preparation, histopathologic evaluation and report preparation for the study listed above have been performed according to the Standard Operating Procedures of Research Pathology Services, Inc. and were audited in accordance with the procedures established by the Quality Assurance Unit of Research Pathology Services, Inc. in compliance with the "Good Laboratory Practice Standards" regulations (40 CFR 160; 40 CFR 792).

Quality Assurance inspections were performed on 08/07/98, 08/11/98, 08/24/98, 08/26/98, 09/11/98, 09/14/98, 10/02/98, 10/06/98, 11/04/98, 12/08/98, 01/18-20/99, 02/02-04/99, 02/11/99, 02/12/99, 02/16/99, 02/17/99 and 04/07/99 and findings were reported to management monthly. There were no deviations from the protocol, Standard Operating Procedures and/or appropriate Good Laboratory Practice regulations noted during the conduct of the study that had any impact on study integrity. The summary report of QA inspections was submitted to the Study Director on April 7, 1999.

Karen W. Harkins B.S.

Karen W. Harkins, BS
Quality Assurance Unit

04-07-99

Date

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
ADRENAL GLANDS:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	24	0	0	19	20	0	0	18
-hypertrophy, cortical, focal	[0]	[0]	[0]	[1]	[1]	[0]	[0]	[1]
minimal	0	0	0	1	1	0	0	1
-vacuolation, cortical, focal	[6]	[0]	[0]	[11]	[8]	[0]	[0]	[5]
minimal	4	0	0	7	8	0	0	5
mild	2	0	0	4	0	0	0	0
AORTA:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	30	28	0	0	24
BONE (FEMUR):								
NO. EXAMINED	29	0	0	30	28	0	0	24
NO. NORMAL	29	0	0	29	28	0	0	23
-cyst(s), epiphysis	0	0	0	0	0	0	0	1
-fibrosis, epiphysis, focal	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
BONE MARROW (FEMUR):								
NO. EXAMINED	29	0	0	30	28	0	0	24
NO. NORMAL	29	0	0	29	28	0	0	24
-lymphoma, malignant	0	0	0	1	0	0	0	0
BRAIN:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	30	28	0	0	24
CECUM:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	28	0	0	30	24	0	0	23
-edema, submucosa	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
mild	0	0	0	0	1	0	0	0
-hyperplasia, lymphoid	[2]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
mild	2	0	0	0	0	0	0	0
-inflammation, chronic, mucosa	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
minimal	0	0	0	0	1	0	0	0
-parasite(s), lumen	0	0	0	0	2	0	0	1
CERVIX:								
NO. EXAMINED					28	0	0	23
NO. NORMAL					28	0	0	23
COLON:								
NO. EXAMINED	30	0	0	30	28	0	0	23
NO. NORMAL	29	0	0	30	27	0	0	18

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
COLON (Continued):								
-parasite(s), lumen	1	0	0	0	1	0	0	5
DUODENUM:								
NO. EXAMINED	29	0	0	30	28	0	0	24
NO. NORMAL	29	0	0	30	28	0	0	24
EAR(S):								
NO. EXAMINED	0	0	0	0	4	2	3	0
NO. NORMAL	0	0	0	0	1	0	0	0
-chondritis, auricular	[0]	[0]	[0]	[0]	[2]	[2]	[3]	[0]
mild	0	0	0	0	0	0	1	0
moderate	0	0	0	0	2	0	0	0
marked	0	0	0	0	0	2	2	0
-dermatitis, chronic	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
mild	0	0	0	0	1	0	0	0
EPIDIDYMIDES:								
NO. EXAMINED	30	1	1	30				
NO. NORMAL	17	0	0	19				
-hypospermia	[0]	[0]	[1]	[0]				
marked	0	0	1	0				
-infiltration, mononuclear-cell, focal	[13]	[0]	[1]	[11]				
minimal	13	0	1	11				
-necrotic germ cells	0	1	0	0				
ESOPHAGUS:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	30	28	0	0	24
EYES:								
NO. EXAMINED	30	1	1	30	28	0	0	24
NO. NORMAL	30	0	0	28	28	0	0	24
-atrophy, retinal, focal	[0]	[1]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	0	1	0	2	0	0	0	0
-keratitis, chronic	[0]	[0]	[1]	[0]	[0]	[0]	[0]	[0]
mild	0	0	1	0	0	0	0	0
-mineralization, cornea, focal	[0]	[0]	[1]	[0]	[0]	[0]	[0]	[0]
minimal	0	0	1	0	0	0	0	0
HEART:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	21	0	0	15	28	0	0	24

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
HEART (Continued):								
-fibrosis, myocardial, focal	[7]	[0]	[0]	[10]	[0]	[0]	[0]	[0]
minimal	7	0	0	8	0	0	0	0
mild	0	0	0	2	0	0	0	0
-hemosiderosis	[4]	[0]	[0]	[6]	[0]	[0]	[0]	[0]
minimal	4	0	0	6	0	0	0	0
-inflammation, chronic, multifocal	[3]	[0]	[0]	[5]	[0]	[0]	[0]	[0]
minimal	3	0	0	5	0	0	0	0
ILEUM:								
NO. EXAMINED	30	0	0	28	27	0	0	24
NO. NORMAL	29	0	0	28	27	0	0	24
-Advanced autolysis precludes evaluation	1	0	0	0	0	0	0	0
JEJUNUM:								
NO. EXAMINED	30	0	0	29	28	0	0	24
NO. NORMAL	29	0	0	29	28	0	0	24
-Advanced autolysis precludes evaluation	1	0	0	0	0	0	0	0
KIDNEYS:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	14	0	0	17	23	0	0	16
-cyst(s), medulla	2	0	0	0	0	0	0	0
-degeneration/basophilia, cortical tubules, focal	[7]	[0]	[0]	[7]	[0]	[0]	[0]	[0]
minimal	6	0	0	6	0	0	0	0
mild	1	0	0	1	0	0	0	0
-dilatation, cortical tubules	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[1]
minimal	0	0	0	0	0	0	0	1
-dilatation, pelvis	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
mild	0	0	0	1	0	0	0	0
-fibrosis, focal	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[1]
minimal	0	0	0	0	0	0	0	1
-glomerulonephritis, chronic	[1]	[0]	[0]	[3]	[0]	[0]	[0]	[0]
minimal	1	0	0	3	0	0	0	0
-hyaline droplets, cortical tubules	[2]	[0]	[0]	[3]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
mild	2	0	0	1	0	0	0	0
moderate	0	0	0	1	0	0	0	0
-infiltration, mononuclear-cell, focal/multifocal	[10]	[0]	[0]	[5]	[2]	[0]	[0]	[1]
minimal	10	0	0	5	2	0	0	1

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
KIDNEYS (Continued):								
-mineralization, multifocal	[0]	[0]	[0]	[0]	[2]	[0]	[0]	[6]
minimal	0	0	0	0	2	0	0	6
-mineralization, pelvis	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
minimal	0	0	0	0	1	0	0	0
-vacuolation, cortical tubules	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[1]
mild	0	0	0	0	0	0	0	1
LIVER:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	18	0	0	19	24	0	0	19
-cellular alteration, clear-cell, focal	[1]	[0]	[0]	[1]	[0]	[0]	[0]	[1]
minimal	1	0	0	1	0	0	0	1
-hematopoiesis, extramedullary	[1]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	1	0	0	2	0	0	0	0
-inflammation, chronic, focal/multifocal	[9]	[0]	[0]	[9]	[4]	[0]	[0]	[3]
minimal	9	0	0	9	4	0	0	3
-necrosis, focal	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[2]
minimal	1	0	0	0	0	0	0	2
-vacuolation, hepatocellular, periportal	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0
LUNG:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	19	0	0	17	17	0	0	12
-alveolitis, acute, focal/multifocal	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
-hypertrophy, arterial	[1]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
mild	0	0	0	1	0	0	0	0
moderate	1	0	0	0	0	0	0	0
-infiltration, eosinophilic, perivascular and peribronchial	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[2]
minimal	0	0	0	0	0	0	0	2
-inflammation, interstitial, focal	[1]	[0]	[0]	[1]	[1]	[0]	[0]	[0]
minimal	1	0	0	1	1	0	0	0
-macrophages, alveoli, focal	[9]	[0]	[0]	[11]	[9]	[0]	[0]	[11]
minimal	9	0	0	9	8	0	0	10
mild	0	0	0	2	1	0	0	1

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
LUNG (Continued):								
-proliferation, lymphoid, peribronchial/perivascular	[0]	[0]	[0]	[1]	[1]	[0]	[0]	[0]
minimal	0	0	0	1	1	0	0	0
LYMPH NODE, MANDIBULAR:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	18	0	0	18	11	0	0	8
-hyperplasia, lymphocytic/plasmacytic	[12]	[0]	[0]	[12]	[17]	[0]	[0]	[16]
minimal	5	0	0	5	5	0	0	5
mild	2	0	0	5	3	0	0	6
moderate	5	0	0	2	9	0	0	5
-lymphadenopathy, cystic	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
mild	0	0	0	0	1	0	0	0
LYMPH NODE, MESENTERIC:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	27	0	0	30	23	0	0	22
-congestion/erythrophagocytosis	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0
-edema	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
moderate	0	0	0	0	1	0	0	0
-hemorrhage	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
mild	1	0	0	0	0	0	0	0
-histiocytosis	[0]	[0]	[0]	[0]	[3]	[0]	[0]	[2]
mild	0	0	0	0	3	0	0	1
moderate	0	0	0	0	0	0	0	1
-hyperplasia, lymphoid	[1]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
mild	1	0	0	0	1	0	0	0
LYMPHORETICULAR SYSTEM:								
-lymphoma, malignant	0	0	0	1	0	0	0	0
MAMMARY GLAND:								
NO. EXAMINED	19	0	0	22	28	1	0	24
NO. NORMAL	19	0	0	22	26	0	0	23
-adenocarcinoma	0	0	0	0	0	1/2	0	0
-cystic gland/duct	0	0	0	0	1	0	0	1
-inflammation, subacute	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
minimal	0	0	0	0	1	0	0	0
MUSCLE, SKELETAL:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	29	0	0	29	28	0	0	24

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
MUSCLE, SKELETAL (Continued):								
-inflammation, chronic, focal	[1]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
mild	1	0	0	0	0	0	0	0
NERVE, SCIATIC:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	30	28	0	0	24
OVARIES:								
NO. EXAMINED					28	0	0	24
NO. NORMAL					28	0	0	24
PALATE:								
NO. EXAMINED	0	0	0	1	0	0	0	0
NO. NORMAL	0	0	0	0	0	0	0	0
-abscess	0	0	0	1	0	0	0	0
-fracture	0	0	0	1	0	0	0	0
PANCREAS:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	17	0	0	19	28	0	0	24
-atrophy, acinar, focal	[3]	[0]	[0]	[5]	[0]	[0]	[0]	[0]
minimal	2	0	0	4	0	0	0	0
moderate	1	0	0	1	0	0	0	0
-fibrosis, islet, focal	[8]	[0]	[0]	[8]	[0]	[0]	[0]	[0]
minimal	3	0	0	2	0	0	0	0
mild	2	0	0	4	0	0	0	0
moderate	3	0	0	2	0	0	0	0
-hemorrhage	[3]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	2	0	0	0	0	0	0	0
mild	1	0	0	0	0	0	0	0
-hypertrophy, acinar-cell, focal	[2]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	2	0	0	0	0	0	0	0
-inflammation, chronic, focal/multifocal	[5]	[0]	[0]	[3]	[0]	[0]	[0]	[0]
minimal	3	0	0	2	0	0	0	0
mild	1	0	0	0	0	0	0	0
moderate	1	0	0	1	0	0	0	0
-microgranuloma(s)	1	0	0	0	0	0	0	0
PARATHYROID:								
NO. EXAMINED	27	0	0	25	24	0	0	23
NO. NORMAL	26	0	0	25	24	0	0	23
-ectopic thymic tissue	1	0	0	0	0	0	0	0

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
PITUITARY:								
NO. EXAMINED	30	0	0	30	28	0	0	23
NO. NORMAL	9	0	0	7	28	0	0	23
-cyst(s), pars distalis	1	0	0	0	0	0	0	0
-hypertrophy/vacuolation, pars distalis	[21]	[0]	[0]	[23]	[0]	[0]	[0]	[0]
minimal	12	0	0	15	0	0	0	0
mild	6	0	0	6	0	0	0	0
moderate	3	0	0	2	0	0	0	0
PROSTATE:								
NO. EXAMINED	30	0	0	30				
NO. NORMAL	21	0	0	23				
-prostatitis, interstitial, chronic	[7]	[0]	[0]	[7]				
minimal	5	0	0	6				
mild	2	0	0	1				
-prostatitis, suppurative	[2]	[0]	[0]	[0]				
minimal	1	0	0	0				
mild	1	0	0	0				
RECTUM:								
NO. EXAMINED	29	0	0	29	28	0	0	24
NO. NORMAL	29	0	0	28	25	0	0	23
-parasite(s), lumen	0	0	0	1	3	0	0	1
SALIVARY GLAND:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	30	28	0	0	24
SEMINAL VESICLES:								
NO. EXAMINED	30	0	0	30				
NO. NORMAL	30	0	0	30				
SKIN (ROUTINE SECTION):								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	30	20	0	0	18
-dermatitis, chronic	[0]	[0]	[0]	[0]	[3]	[0]	[0]	[2]
minimal	0	0	0	0	1	0	0	1
mild	0	0	0	0	2	0	0	0
moderate	0	0	0	0	0	0	0	1
-hyperplasia/hyperkeratosis, epidermis	[0]	[0]	[0]	[0]	[8]	[0]	[0]	[4]
mild	0	0	0	0	4	0	0	2
moderate	0	0	0	0	4	0	0	2
-necrosis, epidermis, focal	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[1]
mild	0	0	0	0	0	0	0	1
SKIN (GROSS LESION):								
NO. EXAMINED	1	0	0	0	0	0	0	0
NO. NORMAL	0	0	0	0	0	0	0	0

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
SKIN (GROSS LESION) (Continued):								
-fibroma	1	0	0	0	0	0	0	0
SPINAL CORD, CERVICAL:								
NO. EXAMINED	30	0	0	30	28	0	0	21
NO. NORMAL	30	0	0	30	28	0	0	21
SPINAL CORD, LUMBAR:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	29	28	0	0	24
-cyst(s), epidermal	0	0	0	1	0	0	0	0
SPINAL CORD, THORACIC:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	30	0	0	30	28	0	0	24
SPLEEN:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	21	0	0	18	27	0	0	24
-cyst(s)	0	0	0	0	1	0	0	0
-hematopoiesis, extramedullary	[9]	[0]	[0]	[10]	[0]	[0]	[0]	[0]
minimal	6	0	0	7	0	0	0	0
mild	3	0	0	3	0	0	0	0
-hemosiderosis	[0]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
mild	0	0	0	2	0	0	0	0
-lymphoma, malignant	0	0	0	1	0	0	0	0
STOMACH:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	22	0	0	26	25	0	0	21
-cystic gland(s), glandular mucosa	0	0	0	0	1	0	0	0
-dilatation, mucosal glands	[7]	[0]	[0]	[3]	[2]	[0]	[0]	[3]
minimal	4	0	0	2	2	0	0	3
mild	2	0	0	1	0	0	0	0
moderate	1	0	0	0	0	0	0	0
-infiltration, mixed inflammatory cell, submucosa	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
-infiltration, polymorphonuclear, submucosa	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0
TESTIS:								
NO. EXAMINED	30	1	1	30				
NO. NORMAL	30	0	0	30				

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
TESTIS (Continued):								
-atrophy, diffuse	[0]	[0]	[1]	[0]				
marked	0	0	1	0				
-atrophy, multifocal	[0]	[1]	[0]	[0]				
mild	0	1	0	0				
THYMUS:								
NO. EXAMINED	30	0	0	30	28	0	0	23
NO. NORMAL	27	0	0	28	23	0	0	19
-atrophy	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[1]
moderate	0	0	0	0	1	0	0	1
-congestion	[3]	[0]	[0]	[2]	[0]	[0]	[0]	[2]
minimal	1	0	0	1	0	0	0	2
mild	2	0	0	1	0	0	0	0
-cyst(s)	0	0	0	0	4	0	0	1
THYROID:								
NO. EXAMINED	30	30	30	30	28	21	26	24
NO. NORMAL	19	18	3	0	20	5	4	0
-Advanced autolysis precludes evaluation	1	0	0	0	0	0	0	0
-adenoma, follicular	1	0	0	0	0	0	0	0
-follicle(s), cystic	2	0	0	0	1	0	1	0
-hyperplasia, C-cell, focal	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
-hypertrophy and hyperplasia, follicular epithelium	[2]	[9]	[25]	[30]	[4]	[10]	[20]	[24]
minimal	0	2	1	0	2	4	4	0
mild	1	5	5	0	1	3	8	0
moderate	1	2	11	1	1	3	8	2
marked	0	0	8	29	0	0	0	22
-inflammation, chronic, focal	[0]	[0]	[0]	[1]	[1]	[0]	[0]	[0]
minimal	0	0	0	1	1	0	0	0
-ultimobranchial body/cyst	6	6	4	1	4	8	8	3
TRACHEA:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	24	0	0	23	26	0	0	22
-cystic tracheal glands	0	0	0	1	0	0	0	0
-tracheitis, chronic, focal	[6]	[0]	[0]	[6]	[2]	[0]	[0]	[2]
minimal	6	0	0	6	2	0	0	2
URINARY BLADDER:								
NO. EXAMINED	29	0	0	28	27	0	0	24
NO. NORMAL	28	0	0	28	27	0	0	24

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 1 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
P1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	28	22	26	24
URINARY BLADDER (Continued):								
-infiltration, mononuclear-cell, focal	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0
UTERUS:								
NO. EXAMINED					28	0	0	24
NO. NORMAL					7	0	0	8
-distention, lumen					[3]	[0]	[0]	[0]
minimal					2	0	0	0
mild					1	0	0	0
-macrophages, pigmented					[21]	[0]	[0]	[16]
minimal					3	0	0	1
mild					5	0	0	2
moderate					12	0	0	13
marked					1	0	0	0
VAGINA:								
NO. EXAMINED					28	0	0	24
NO. NORMAL					28	0	0	24
ZYMBAL'S GLAND:								
NO. EXAMINED	30	0	0	30	28	0	0	24
NO. NORMAL	28	0	0	28	28	0	0	24
-cyst(s)	2	0	0	2	0	0	0	0

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
ABDOMINAL CAVITY:								
NO. EXAMINED	0	0	0	0	0	0	0	1
NO. NORMAL	0	0	0	0	0	0	0	1
ADRENAL GLANDS:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	24	0	0	22	14	0	0	15
-hypertrophy, cortical, focal	[2]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	2	0	0	0	0	0	0	0
-hypertrophy, zona glomerulosa	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[1]
mild	0	0	0	0	0	0	0	1
-vacuolation, cortical, focal	[4]	[0]	[0]	[8]	[6]	[0]	[0]	[9]
minimal	3	0	0	1	6	0	0	8
mild	0	0	0	5	0	0	0	1
moderate	1	0	0	2	0	0	0	0
AORTA:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	20	0	0	25
BONE (FEMUR):								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	29	0	0	30	20	0	0	25
-cyst(s), epiphysis	1	0	0	0	0	0	0	0
BONE MARROW (FEMUR):								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	20	0	0	25
BRAIN:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	20	0	0	25
CECUM:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	29	0	0	27	19	0	0	25
-Advanced autolysis precludes evaluation	0	0	0	1	0	0	0	0
-hyperplasia, lymphoid	[0]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	0	0	0	2	0	0	0	0
-inflammation, chronic, mucosa	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
mild	1	0	0	0	0	0	0	0
-parasite(s), lumen	0	0	0	0	1	0	0	0
CERVIX:								
NO. EXAMINED					19	0	0	25
NO. NORMAL					19	0	0	25

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
COLON:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	19	0	0	23
-parasite(s), lumen	0	0	0	0	1	0	0	2
DUODENUM:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	20	0	0	25
EAR(S):								
NO. EXAMINED	0	1	0	0	2	0	1	3
NO. NORMAL	0	0	0	0	0	0	0	0
-chondritis, auricular	[0]	[1]	[0]	[0]	[2]	[0]	[1]	[3]
mild	0	1	0	0	0	0	0	0
moderate	0	0	0	0	0	0	1	1
marked	0	0	0	0	2	0	0	2
EPIDIDYMIDES:								
NO. EXAMINED	30	0	1	30				
NO. NORMAL	21	0	0	26				
-hypospermia	[1]	[0]	[1]	[0]				
marked	1	0	1	0				
-infiltration, mononuclear-cell, focal	[8]	[0]	[0]	[4]				
minimal	8	0	0	4				
ESOPHAGUS:								
NO. EXAMINED	30	0	0	30	19	0	0	25
NO. NORMAL	30	0	0	30	19	0	0	24
-dilatation	0	0	0	0	0	0	0	1
EXTREMITIES:								
NO. EXAMINED	0	0	0	1	0	0	0	0
NO. NORMAL	0	0	0	1	0	0	0	0
EYES:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	29	0	0	27	19	0	0	25
-atrophy, retinal, diffuse	[0]	[0]	[0]	[1]	[1]	[0]	[0]	[0]
moderate	0	0	0	0	1	0	0	0
marked	0	0	0	1	0	0	0	0
-keratitis, chronic, focal	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
mild	0	0	0	0	1	0	0	0
-mineralization, cornea, focal	[1]	[0]	[0]	[3]	[0]	[0]	[0]	[0]
minimal	1	0	0	3	0	0	0	0
HEART:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	19	0	0	18	20	0	0	23

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
HEART (Continued):								
-fibrosis, myocardial, focal	[6]	[0]	[0]	[6]	[0]	[0]	[0]	[1]
minimal	6	0	0	3	0	0	0	1
mild	0	0	0	3	0	0	0	0
-hemosiderosis	[5]	[0]	[0]	[6]	[0]	[0]	[0]	[0]
minimal	5	0	0	5	0	0	0	0
mild	0	0	0	1	0	0	0	0
-inflammation, chronic, focal	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0
-inflammation, chronic, multifocal	[6]	[0]	[0]	[6]	[0]	[0]	[0]	[1]
minimal	6	0	0	5	0	0	0	1
mild	0	0	0	1	0	0	0	0
ILEUM:								
NO. EXAMINED	30	0	0	29	20	0	0	25
NO. NORMAL	30	0	0	29	20	0	0	25
JEJUNUM:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	29	20	0	0	25
-Advanced autolysis precludes evaluation	0	0	0	1	0	0	0	0
KIDNEYS:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	12	0	0	14	19	0	0	20
-cast(s), granular	0	0	0	1	0	0	0	0
-cyst(s), cortex	1	0	0	2	0	0	0	1
-cyst(s), medulla	1	0	0	0	1	0	0	0
-degeneration/basophilia, cortical tubules, focal	[3]	[0]	[0]	[5]	[0]	[0]	[0]	[0]
minimal	3	0	0	5	0	0	0	0
-dilatation, cortical tubules	[0]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	0	0	0	2	0	0	0	0
-dilatation, medullary tubules	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
-dilatation, pelvis	[2]	[0]	[0]	[5]	[1]	[0]	[0]	[0]
mild	2	0	0	5	1	0	0	0
-dilatation, tubules, papilla	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
KIDNEYS (Continued):								
-glomerulonephritis, chronic	[2]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	1	0	0	1	0	0	0	0
mild	1	0	0	1	0	0	0	0
-hyaline droplets, cortical tubules	[9]	[0]	[0]	[7]	[0]	[0]	[0]	[0]
minimal	3	0	0	0	0	0	0	0
mild	5	0	0	3	0	0	0	0
moderate	1	0	0	4	0	0	0	0
-infiltration, mononuclear-cell, focal/multifocal	[2]	[0]	[0]	[5]	[0]	[0]	[0]	[1]
minimal	2	0	0	5	0	0	0	1
-mineralization, multifocal	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[1]
minimal	1	0	0	0	0	0	0	1
-mineralization, pelvis	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[2]
minimal	0	0	0	0	0	0	0	2
LIVER:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	13	0	0	16	13	0	0	22
-hematopoiesis, extramedullary	[0]	[0]	[0]	[1]	[1]	[0]	[0]	[0]
minimal	0	0	0	1	1	0	0	0
-inflammation, chronic, focal/multifocal	[17]	[0]	[0]	[13]	[6]	[0]	[0]	[3]
minimal	17	0	0	12	6	0	0	3
mild	0	0	0	1	0	0	0	0
LUNG:								
NO. EXAMINED	30	0	0	30	19	0	0	25
NO. NORMAL	18	0	0	23	5	0	0	13
-infiltration, eosinophilic, perivascular and peribronchial	[0]	[0]	[0]	[0]	[2]	[0]	[0]	[1]
minimal	0	0	0	0	2	0	0	1
-inflammation, interstitial, acute, focal	[0]	[0]	[0]	[1]	[1]	[0]	[0]	[3]
minimal	0	0	0	1	1	0	0	3
-inflammation, interstitial, chronic, focal	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[1]
minimal	0	0	0	0	0	0	0	1
-macrophages, alveoli, focal	[10]	[0]	[0]	[6]	[12]	[0]	[0]	[9]
minimal	8	0	0	5	11	0	0	8
mild	2	0	0	1	1	0	0	1
-proliferation, lymphoid, peribronchial/perivascular	[3]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	3	0	0	2	0	0	0	0
LYMPH NODE, MANDIBULAR:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	16	0	0	16	9	0	0	10

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
LYMPH NODE, MANDIBULAR (Continued):								
-hyperplasia, lymphocytic/plasmacytic	[14]	[0]	[0]	[14]	[11]	[0]	[0]	[15]
minimal	7	0	0	6	3	0	0	8
mild	3	0	0	3	2	0	0	5
moderate	4	0	0	4	6	0	0	2
marked	0	0	0	1	0	0	0	0
LYMPH NODE, MESENTERIC:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	28	12	0	0	18
-congestion	[0]	[0]	[0]	[0]	[2]	[0]	[0]	[0]
minimal	0	0	0	0	2	0	0	0
-histiocytosis	[0]	[0]	[0]	[2]	[4]	[0]	[0]	[7]
minimal	0	0	0	1	2	0	0	3
mild	0	0	0	1	2	0	0	4
-hyperplasia, lymphoid	[0]	[0]	[0]	[0]	[3]	[0]	[0]	[1]
minimal	0	0	0	0	1	0	0	0
mild	0	0	0	0	2	0	0	1
MAMMARY GLAND:								
NO. EXAMINED	22	0	0	24	20	0	0	24
NO. NORMAL	22	0	0	24	20	0	0	23
-cystic gland/duct	0	0	0	0	0	0	0	1
MUSCLE, SKELETAL:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	29	0	0	30	20	0	0	25
-inflammation, chronic, focal	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0
NERVE, SCIATIC:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	20	0	0	25
OVARIES:								
NO. EXAMINED					20	0	0	25
NO. NORMAL					19	0	0	25
-cyst(s)					1	0	0	0
PANCREAS:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	16	0	0	18	20	0	0	25

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
PANCREAS (Continued):								
-atrophy, acinar, focal	[2]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	1	0	0	1	0	0	0	0
mild	1	0	0	1	0	0	0	0
-fibrosis, islet, focal	[9]	[0]	[0]	[5]	[0]	[0]	[0]	[0]
minimal	5	0	0	4	0	0	0	0
mild	4	0	0	1	0	0	0	0
-hemorrhage	[3]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	2	0	0	2	0	0	0	0
mild	1	0	0	0	0	0	0	0
-hypertrophy, acinar-cell, focal	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
-inflammation, acute, focal	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
-inflammation, chronic, focal/multifocal	[5]	[0]	[0]	[6]	[0]	[0]	[0]	[0]
minimal	5	0	0	4	0	0	0	0
mild	0	0	0	2	0	0	0	0
-inflammation, subacute, focal	[3]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	3	0	0	0	0	0	0	0
PARATHYROID:								
NO. EXAMINED	25	0	0	27	19	0	0	25
NO. NORMAL	25	0	0	27	19	0	0	25
PITUITARY:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	17	0	0	20	20	0	0	25
-cyst(s), pars distalis	1	0	0	0	0	0	0	0
-hyperplasia, pars distalis, focal	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
minimal	0	0	0	1	0	0	0	0
-hypertrophy/vacuolation, pars distalis	[13]	[0]	[0]	[9]	[0]	[0]	[0]	[0]
minimal	10	0	0	4	0	0	0	0
mild	1	0	0	4	0	0	0	0
moderate	2	0	0	1	0	0	0	0
PROSTATE:								
NO. EXAMINED	30	0	1	30				
NO. NORMAL	21	0	0	24				
-prostatitis, interstitial, chronic	[9]	[0]	[0]	[6]				
minimal	5	0	0	5				
mild	4	0	0	0				
moderate	0	0	0	1				

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
PROSTATE (Continued):								
-prostatitis, suppurative	[0]	[0]	[1]	[0]				
marked	0	0	1	0				
RECTUM:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	16	0	0	25
-parasite(s), lumen	0	0	0	0	4	0	0	0
SALIVARY GLAND:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	20	0	0	25
SEMINAL VESICLES:								
NO. EXAMINED	30	0	0	30				
NO. NORMAL	30	0	0	30				
SKIN (ROUTINE SECTION):								
NO. EXAMINED	29	0	0	29	20	0	0	24
NO. NORMAL	28	0	0	29	14	0	0	16
-dermatitis, chronic, focal	[0]	[0]	[0]	[0]	[3]	[0]	[0]	[0]
minimal	0	0	0	0	1	0	0	0
mild	0	0	0	0	1	0	0	0
moderate	0	0	0	0	1	0	0	0
-hyperplasia, epidermis	[1]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
minimal	1	0	0	0	0	0	0	0
-hyperplasia/hyperkeratosis, epidermis	[0]	[0]	[0]	[0]	[4]	[0]	[0]	[8]
minimal	0	0	0	0	3	0	0	2
mild	0	0	0	0	1	0	0	5
moderate	0	0	0	0	0	0	0	1
-necrosis, focal	[0]	[0]	[0]	[0]	[1]	[0]	[0]	[0]
moderate	0	0	0	0	1	0	0	0
SKIN (GROSS LESION):								
NO. EXAMINED	0	0	1	0	0	0	1	0
NO. NORMAL	0	0	0	0	0	0	0	0
-dermatitis, chronic, focal	[0]	[0]	[1]	[0]	[0]	[0]	[1]	[0]
minimal	0	0	0	0	0	0	1	0
moderate	0	0	1	0	0	0	0	0
SPINAL CORD, CERVICAL:								
NO. EXAMINED	29	0	0	30	20	0	0	25
NO. NORMAL	29	0	0	30	20	0	0	25
SPINAL CORD, LUMBAR:								
NO. EXAMINED	30	0	0	29	20	0	0	25
NO. NORMAL	30	0	0	29	20	0	0	25

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
SPINAL CORD, THORACIC:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	30	0	0	30	20	0	0	25
SPLEEN:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	22	0	0	20	16	0	0	23
-Advanced autolysis precludes evaluation	0	0	0	1	0	0	0	0
-hematopoiesis, extramedullary	[1]	[0]	[0]	[3]	[0]	[0]	[0]	[0]
minimal	1	0	0	3	0	0	0	0
-hemosiderosis	[8]	[0]	[0]	[6]	[4]	[0]	[0]	[2]
minimal	2	0	0	2	1	0	0	2
mild	5	0	0	3	3	0	0	0
moderate	1	0	0	1	0	0	0	0
STOMACH:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	24	0	0	24	17	0	0	18
-Advanced autolysis precludes evaluation	0	0	0	1	0	0	0	0
-cyst(s), squamous	1	0	0	0	0	0	0	0
-dilatation, mucosal glands	[5]	[0]	[0]	[5]	[3]	[0]	[0]	[7]
minimal	3	0	0	3	1	0	0	7
mild	2	0	0	2	2	0	0	0
TESTIS:								
NO. EXAMINED	30	0	1	30				
NO. NORMAL	29	0	0	30				
-atrophy, diffuse	[1]	[0]	[1]	[0]				
marked	1	0	1	0				
THYMUS:								
NO. EXAMINED	30	0	0	30	19	0	0	25
NO. NORMAL	24	0	0	21	14	0	0	20
-atrophy	[0]	[0]	[0]	[0]	[3]	[0]	[0]	[2]
minimal	0	0	0	0	0	0	0	1
mild	0	0	0	0	3	0	0	1
-congestion	[6]	[0]	[0]	[9]	[0]	[0]	[0]	[1]
minimal	4	0	0	4	0	0	0	1
mild	1	0	0	4	0	0	0	0
moderate	1	0	0	1	0	0	0	0
-cyst(s)	0	0	0	0	2	0	0	2
THYROID:								
NO. EXAMINED	30	30	30	30	20	27	27	25
NO. NORMAL	18	14	7	0	5	16	8	0
-Advanced autolysis precludes evaluation	0	0	0	1	0	0	0	0

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE 2 (Continued)

Incidence and Degree of Severity of Histomorphologic Observations
F1 Generation

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	30	30	30	30	20	27	28	25
THYROID (Continued):								
-adenoma, follicular	0	0	0	1	0	0	0	0
-hyperplasia, follicular, focal/nodular	[0]	[0]	[0]	[1]	[0]	[0]	[0]	[0]
marked	0	0	0	1	0	0	0	0
-hypertrophy and hyperplasia, follicular epithelium	[5]	[8]	[19]	[26]	[6]	[6]	[13]	[24]
minimal	0	0	3	0	4	5	6	1
mild	3	4	5	0	2	1	6	2
moderate	2	4	5	3	0	0	1	10
marked	0	0	6	23	0	0	0	11
-ultimobranchial body/cyst	10	8	6	6	13	9	15	8
TRACHEA:								
NO. EXAMINED	30	0	0	30	19	0	0	25
NO. NORMAL	27	0	0	28	18	0	0	24
-tracheitis, chronic, focal	[3]	[0]	[0]	[2]	[1]	[0]	[0]	[1]
minimal	3	0	0	2	1	0	0	1
URINARY BLADDER:								
NO. EXAMINED	30	0	0	29	20	0	0	25
NO. NORMAL	30	0	0	27	20	0	0	25
-infiltration, mononuclear-cell, focal	[0]	[0]	[0]	[2]	[0]	[0]	[0]	[0]
minimal	0	0	0	2	0	0	0	0
UTERUS:								
NO. EXAMINED					20	0	0	25
NO. NORMAL					1	0	0	2
-deciduoma					1	0	0	0
-distention, lumen					[3]	[0]	[0]	[3]
minimal					0	0	0	1
mild					2	0	0	1
moderate					1	0	0	1
-macrophages, pigmented					[17]	[0]	[0]	[22]
minimal					1	0	0	3
mild					7	0	0	8
moderate					9	0	0	11
VAGINA:								
NO. EXAMINED					19	0	0	25
NO. NORMAL					19	0	0	25
ZYMBAL'S GLAND:								
NO. EXAMINED	30	0	0	30	20	0	0	25
NO. NORMAL	29	0	0	29	20	0	0	25
-cyst(s)	1	0	0	1	0	0	0	0

[ ] = Total incidence of specified lesion, all grades.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Table 3
Incidence and Degree of Severity of Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Weanlings Examined:	28	22	25	23	28	22	24	23
THYROID:								
NO. EXAMINED	28	22	25	23	28	22	24	23
NO. NORMAL	23	16	10	2	25	15	8	0
-hypertrophy and hyperplasia, follicular epithelium								
minimal	2	3	3	3	1	3	9	0
mild	1	1	10	8	2	2	4	3
moderate	0	0	1	10	0	0	3	13
marked	0	0	0	2	0	0	0	7
Total Incidence, All Grades	3	4	14	23	3	5	16	23
-ultimobranchial body/cyst	2	3	1	2	0	3	2	1

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Table 4
Incidence and Degree of Severity of Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	1	2	3	4	1	2	3	4
Sex:	M	M	M	M	F	F	F	F
Number of Animals/Group:	20	27	28	25	20	27	28	25
THYROID:								
NO. EXAMINED	20	27	28	25	20	27	28	25
NO. NORMAL	16	21	11	3	18	23	10	0
-hypertrophy and hyperplasia, follicular epithelium								
minimal	1	0	10	1	1	3	6	2
mild	0	2	6	1	0	0	10	3
moderate	0	0	1	14	0	0	2	15
marked	0	0	0	6	0	0	0	5
Total Incidence, All Grades	1	2	17	22	1	3	18	25
-ultimobranchial body/cyst	3	4	0	1	1	1	0	0

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

APPENDIX I

HISTOMORPHOLOGIC OBSERVATIONS

P1 GENERATION

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

KEY TO HISTOMORPHOLOGIC OBSERVATIONS

-	=	No change (not remarkable, within normal histologic limits or indicated change not present).
*	=	Tissue not available (specified tissue missing, insufficient tissue in plane of section, artifact precludes evaluation, or specified tissue not present in section).
< >	=	Microscopic finding(s) in tissue(s) with gross observation(s).
<->	=	Within normal limits [no microscopic change(s) to correlate with the gross observation(s)].
A	=	Advanced autolysis precludes evaluation.
P	=	Indicated change or lesion present.
1	=	Minimal degree or amount of indicated change or lesion.
2	=	Mild degree or amount of indicated change or lesion.
3	=	Moderate degree or amount of indicated change or lesion.
4	=	Marked degree or amount of indicated change or lesion.
XB	=	Primary benign neoplasm
XM	=	Primary malignant neoplasm
SS	=	Sacrifice-Scheduled
SD	=	Spontaneous Death

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3601	3602	3603	3604	3605	3606	3607	3608	3609	3610
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	-	-	-	-	-	-	2	-	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:										
-hyperplasia, lymphoid	-	-	-	-	2	-	2	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	1	1	-	-	-	-	1	1	1	1
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	-	-	-	-	-	1	-	-	-	-
-hemosiderosis	-	-	-	-	-	-	-	1	-	-
-inflammation, chronic, multifocal	-	-	-	-	-	1	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-degeneration/basophilia, cortical tubules, focal	-	-	-	1	-	1	-	1	-	-
-infiltration, mononuclear-cell, focal/multifocal	-	1	-	1	1	1	1	1	1	1
LIVER:										
-inflammation, chronic, focal/multifocal	-	1	-	-	-	1	-	1	1	-
LUNG:										
-macrophages, alveoli, focal	-	1	-	1	-	-	1	-	1	1
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	-	-	-	1	3	-	3	1	-
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	*	-	-	*	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3601	3602	3603	3604	3605	3606	3607	3608	3609	3610
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	-	-	1	-	-	-	-	-
-fibrosis, islet, focal	-	-	-	-	-	3	-	-	-	1
-hemorrhage	-	-	-	-	-	1	-	-	-	-
-inflammation, chronic, focal/multifocal	1	-	-	-	-	1	-	-	-	-
PARATHYROID:	-	-	-	-	-	*	-	-	-	-
PITUITARY:										
-cyst(s), pars distalis	-	-	-	-	-	-	-	P	-	-
-hypertrophy/vacuolation, pars distalis	1	2	-	1	2	2	-	1	3	2
PROSTATE:										
-prostatitis, interstitial, chronic	-	-	1	1	-	-	-	-	-	1
-prostatitis, suppurative	1	-	-	-	2	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	-	-	-	1	-	-	-	-	-	-
STOMACH:										
-dilatation, mucosal glands	-	-	-	-	-	-	1	-	1	-
-infiltration, polymorphonuclear, submucosa	-	-	1	-	-	-	-	-	-	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:	-	-	-	-	-	-	-	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	2	-	-	-	-	-	-
-ultimobranchial body/cyst	P	-	P	P	P	-	-	P	-	-
TRACHEA:										
-tracheitis, chronic, focal	-	-	-	-	1	1	-	-	1	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3601	3602	3603	3604	3605	3606	3607	3608	3609	3610
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
URINARY BLADDER:	*	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3611	3612	3613	3614	3615	3616	3617	3618	3619	3620
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	2	-	-	1	-	1	-	-	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:										
-parasite(s), lumen	-	-	-	-	-	-	P	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	1	1	1	1	1	-	-	1	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	1	-	-	-	-	1	1	-	-	-
-hemosiderosis	1	-	-	-	-	-	1	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-cyst(s), medulla	-	-	-	P	-	-	-	-	-	-
-degeneration/basophilia, cortical tubules, focal	-	-	-	-	-	-	-	1	-	2
LIVER:										
-cellular alteration, clear-cell, focal	-	-	-	-	-	-	1	-	-	-
-inflammation, chronic, focal/multifocal	1	1	-	-	1	-	-	1	-	-
LUNG:										
-macrophages, alveoli, focal	-	-	1	-	1	-	-	1	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	-	3	2	-	-	-	1	-	-
LYMPH NODE, MESENTERIC:										
-congestion/erythrophagocytosis	-	-	-	-	-	-	-	1	-	-
-hyperplasia, lymphoid	-	-	2	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3611	3612	3613	3614	3615	3616	3617	3618	3619	3620
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
MAMMARY GLAND:	*	-	-	*	*	-	-	*	*	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	-	3	-	-	-	-	-	-
-fibrosis, islet, focal	-	-	1	2	-	-	-	-	-	-
-hemorrhage	-	-	-	2	-	-	-	-	-	-
-hypertrophy, acinar-cell, focal	1	-	-	-	-	-	-	-	-	-
-inflammation, chronic, focal/multifocal	1	-	-	3	-	-	-	-	-	-
-microgranuloma(s)	-	P	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	*	-	-	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	1	1	3	1	-	1	2	-	-	1
PROSTATE:										
-prostatitis, interstitial, chronic	-	-	-	-	-	2	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SKIN (GROSS LESION):										
-fibroma									<XB>	
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	-	-	1	-	-	1	1	-	1	-
STOMACH:										
-dilatation, mucosal glands	-	-	-	-	-	-	3	-	1	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	-	-	2	-	-	-	-	-	-	-
THYROID:										
-adenoma, follicular	-	-	-	-	-	-	XB	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3611	3612	3613	3614	3615	3616	3617	3618	3619	3620
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID (Continued):										
-follicle(s), cystic	-	-	-	-	-	-	-	-	-	P
TRACHEA:										
-tracheitis, chronic, focal	-	1	-	-	-	-	-	1	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:										
-cyst(s)	-	-	-	-	P	-	P	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3621	3622	3623	3624	3625	3626	3627	3628	3629	3630
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SD	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	-	-	-	-	-	-	1	-	-	1
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	*	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	*	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	*	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	1	-	-	-	-	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	-	1	-	-	-	-	-	1	-	1
-hemosiderosis	-	-	-	-	-	-	-	-	-	1
-inflammation, chronic, multifocal	-	1	-	1	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	A	-	-	-	-
JEJUNUM:	-	-	-	-	-	A	-	-	-	-
KIDNEYS:										
-cyst(s), medulla	-	-	-	-	-	-	-	P	-	-
-degeneration/basophilia, cortical tubules, focal	-	-	-	-	-	-	1	-	1	-
-glomerulonephritis, chronic	-	-	-	-	1	-	-	-	-	-
-hyaline droplets, cortical tubules	-	-	-	-	-	-	2	-	2	-
-infiltration, mononuclear-cell, focal/multifocal	-	-	1	-	-	-	1	-	-	-
LIVER:										
-hematopoiesis, extramedullary	-	-	1	-	-	-	-	-	-	-
-inflammation, chronic, focal/multifocal	-	-	1	-	-	-	-	-	-	-
-necrosis, focal	-	-	-	-	-	-	-	1	-	-
-vacuolation, hepatocellular, periportal	-	-	-	1	-	-	-	-	-	-
LUNG:										
-hypertrophy, arterial	-	-	-	-	-	-	-	-	3	-
-inflammation, interstitial, focal	-	-	-	1	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3621	3622	3623	3624	3625	3626	3627	3628	3629	3630
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SD	SS	SS	SS	SS
LUNG (Continued):										
-macrophages, alveoli, focal	1	-	-	-	-	-	-	-	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	2	-	1	-	-	1	3	3	-	-
LYMPH NODE, MESENTERIC:										
-hemorrhage	-	-	-	-	-	-	2	-	-	-
MAMMARY GLAND:	*	*	-	-	*	*	-	-	-	-
MUSCLE, SKELETAL:										
-inflammation, chronic, focal	2	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	-	1	-	-	-	-	-	-
-fibrosis, islet, focal	-	3	-	1	-	-	-	3	2	-
-hemorrhage	-	-	-	1	-	-	-	-	-	-
-hypertrophy, acinar-cell, focal	-	-	-	-	1	-	-	-	-	-
-inflammation, chronic, focal/multifocal	-	-	-	-	2	-	-	-	-	-
PARATHYROID:										
-ectopic thymic tissue	P	-	-	-	-	-	-	-	*	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	-	-	-	1	1	-	2	3	1	1
PROSTATE:										
-prostatitis, interstitial, chronic	2	-	-	-	1	-	-	-	-	1
RECTUM:	-	-	-	-	-	*	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	1	-	-	2	2	-	2	-	-	-
STOMACH:										
-dilatation, mucosal glands	-	-	-	-	-	-	1	2	2	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-1 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3621	3622	3623	3624	3625	3626	3627	3628	3629	3630
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SD	SS	SS	SS	SS
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	-	2	-	-	1	-	-	-	-	-
THYROID:										
-follicle(s), cystic	-	-	-	P	-	A	-	-	-	-
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	-	A	3	-	-	-
-ultimobranchial body/cyst	-	P	-	-	-	A	-	-	-	-
TRACHEA:										
-tracheitis, chronic, focal	-	-	-	-	-	-	1	-	-	-
URINARY BLADDER:										
-infiltration, mononuclear-cell, focal	-	-	-	1	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-2

Histomorphologic Observations
P1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	3631	3632	3633	3634	3635	3636	3637	3638	3639	3640
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
EPIDIDYMIDES:										
-necrotic germ cells									<P>	
EYES:										
-atrophy, retinal, focal							<1>			
TESTIS:										
-atrophy, multifocal									<2>	
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	1	-	-	2	-	2
-ultimobranchial body/cyst	-	-	-	-	-	-	-	P	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-2 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	3641	3642	3643	3644	3645	3646	3647	3648	3649	3650
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	-	2	2	3	-	-	-	-	-
-ultimobranchial body/cyst	-	P	-	-	-	-	-	-	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-2 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	3651	3652	3653	3654	3655	3656	3657	3658	3659	3660
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	-	-	-	-	-	-	-	1	-
-ultimobranchial body/cyst	-	-	-	-	P	-	-	-	P	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-3

Histomorphologic Observations
P1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	3661	3662	3663	3664	3665	3666	3667	3668	3669	3670
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	4	3	2	4	2	3	3	-	2	-
-ultimobranchial body/cyst	-	-	-	-	-	P	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-3 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	3671	3672	3673	3674	3675	3676	3677	3678	3679	3680
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
EPIDIDYMIDES:										
-hypospermia	<4>									
-infiltration, mononuclear-cell, focal	<1>									
EYES:										
-keratitis, chronic							<2>			
-mineralization, cornea, focal							<1>			
TESTIS:										
-atrophy, diffuse	<4>									
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	4	4	3	3	2	-	3	3	3
-ultimobranchial body/cyst	-	-	P	-	-	-	P	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-3 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	3681	3682	3683	3684	3685	3686	3687	3688	3689	3690
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	4	-	1	3	2	4	4	4	3	-
-ultimobranchial body/cyst	-	-	-	-	-	-	-	-	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3691	3692	3693	3694	3695	3696	3697	3698	3699	3700
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SM	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	1	1	1	-	-	-	-	-	-	1
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):										
-fibrosis, epiphysis, focal	-	1	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	-	-	1	-	1	1	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	1	1	-	-	-	-	1	1	1	1
-hemosiderosis	-	1	-	-	-	-	1	-	-	-
-inflammation, chronic, multifocal	-	-	-	-	1	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	*	-	-
KIDNEYS:										
-degeneration/basophilia, cortical tubules, focal	-	-	-	1	1	2	-	-	-	-
-dilatation, pelvis	-	-	-	-	2	-	-	-	-	-
-infiltration, mononuclear-cell, focal/multifocal	-	1	-	-	1	-	-	-	-	-
LIVER:										
-cellular alteration, clear-cell, focal	-	-	-	1	-	-	-	-	-	-
-hematopoiesis, extramedullary	-	-	-	-	-	1	-	-	-	-
-inflammation, chronic, focal/multifocal	-	1	1	-	-	-	1	1	-	-
LUNG:										
-alveolitis, acute, focal/multifocal	-	-	-	-	-	-	-	-	-	1
-inflammation, interstitial, focal	-	-	-	-	-	-	-	-	-	1
-macrophages, alveoli, focal	-	1	1	-	-	-	-	-	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	-	1	-	-	2	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3691	3692	3693	3694	3695	3696	3697	3698	3699	3700
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SM	SS	SS
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	-	*	-	*	-	-	-
MUSCLE, SKELETAL:										
-inflammation, chronic, focal	-	-	-	-	-	-	-	-	-	1
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PALATE:										
-abscess								<P>		
-fracture								<P>		
PANCREAS:										
-atrophy, acinar, focal	-	-	-	1	-	-	-	-	1	-
-fibrosis, islet, focal	-	-	-	3	2	-	-	-	-	3
PARATHYROID:	*	*	-	-	-	-	-	-	-	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	-	-	2	2	1	-	1	1	1	1
PROSTATE:										
-prostatitis, interstitial, chronic	1	-	-	-	1	1	-	-	-	-
RECTUM:										
-parasite(s), lumen	-	-	-	-	-	P	-	*	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	-	-	-	1	1	-	1	-	1	1
-hemosiderosis	-	2	-	-	2	-	-	-	-	-
STOMACH:										
-infiltration, mixed inflammatory cell, submucosa	-	-	-	-	1	-	-	-	-	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3691	3692	3693	3694	3695	3696	3697	3698	3699	3700
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SM	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	4	4	4	4	4	4	4	4	4
-ultimobranchial body/cyst	-	-	P	-	-	-	-	-	-	-
TRACHEA:										
-tracheitis, chronic, focal	-	1	1	-	1	-	1	-	-	-
URINARY BLADDER:	-	-	-	-	*	*	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3701	3702	3703	3704	3705	3706	3707	3708	3709	3710
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-hypertrophy, cortical, focal	-	-	-	-	1	-	-	-	-	-
-vacuolation, cortical, focal	-	2	2	-	1	-	-	-	1	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	1	-	-	1	-	-	-	-	-	1
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:										
-atrophy, retinal, focal	-	-	-	-	-	-	-	-	-	1
HEART:										
-fibrosis, myocardial, focal	2	-	-	-	1	-	-	-	-	-
-hemosiderosis	-	1	-	-	-	-	-	-	-	-
-inflammation, chronic, multifocal	-	1	1	-	1	-	-	1	-	-
ILEUM:	-	-	-	-	*	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-glomerulonephritis, chronic	-	-	-	-	-	1	-	1	-	-
-hyaline droplets, cortical tubules	-	-	2	-	-	-	-	-	-	-
-infiltration, mononuclear-cell, focal/multifocal	-	-	1	-	-	-	-	-	-	-
LIVER:										
-inflammation, chronic, focal/multifocal	-	-	-	-	-	1	-	-	-	1
LUNG:										
-hypertrophy, arterial	-	-	-	2	-	-	-	-	-	-
-macrophages, alveoli, focal	-	-	-	2	1	-	2	1	1	-
-proliferation, lymphoid, peribronchial/perivascular	1	-	-	-	-	-	-	-	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	1	-	-	-	-	3	2	1	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3701	3702	3703	3704	3705	3706	3707	3708	3709	3710
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	-	*	*	*	-	-	*
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	-	-	1	1	-	-	-	-
-fibrosis, islet, focal	-	-	-	-	1	-	-	2	-	-
-inflammation, chronic, focal/multifocal	1	-	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	*	-	-	-	*	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	-	1	1	2	2	-	1	2	3	3
PROSTATE:										
-prostatitis, interstitial, chronic	-	-	-	-	-	-	-	-	1	1
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:										
-cyst(s), epidermal	-	-	-	-	P	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	-	2	-	1	-	-	-	-	-	-
STOMACH:										
-dilatation, mucosal glands	2	-	-	-	-	-	-	-	-	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	-	-	-	2	-	-	1	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	4	4	4	4	4	4	4	4	4	4
-inflammation, chronic, focal	-	-	-	-	-	-	1	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3701	3702	3703	3704	3705	3706	3707	3708	3709	3710
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
TRACHEA:										
-cystic tracheal glands	-	-	-	-	-	-	-	P	-	-
-tracheitis, chronic, focal	-	-	-	-	1	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3711	3712	3713	3714	3715	3716	3717	3718	3719	3720
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	2	-	-	-	-	1	-	2	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):										
-lymphoma, malignant	-	P	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	1	1	-	-	-	1	-	1	1
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:										
-atrophy, retinal, focal	-	1	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	-	-	-	-	-	1	-	2	-	-
-hemosiderosis	-	-	-	-	1	1	-	1	-	-
ILEUM:	-	-	*	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-degeneration/basophilia, cortical tubules, focal	-	1	-	-	-	1	-	1	-	1
-glomerulonephritis, chronic	-	-	-	1	-	-	-	-	-	-
-hyaline droplets, cortical tubules	-	3	-	1	-	-	-	-	-	-
-infiltration, mononuclear-cell, focal/multifocal	-	-	-	-	-	-	-	1	1	-
LIVER:										
-hematopoiesis, extramedullary	1	-	-	-	-	-	-	-	-	-
-inflammation, chronic, focal/multifocal	1	1	-	-	-	-	1	-	-	-
LUNG:										
-macrophages, alveoli, focal	1	-	-	-	1	1	-	-	1	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	1	-	-	2	2	2	3	1	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3711	3712	3713	3714	3715	3716	3717	3718	3719	3720
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
LYMPHORETICULAR SYSTEM:										
-lymphoma, malignant		XM								
MAMMARY GLAND:	-	-	-	*	-	-	*	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	-	-	-	-	-	-	3	-
-fibrosis, islet, focal	-	-	1	2	-	-	-	-	2	-
-inflammation, chronic, focal/multifocal	-	-	-	1	-	-	-	-	3	-
PARATHYROID:	-	-	-	-	-	-	*	-	-	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	-	1	1	1	1	1	-	1	1	2
PROSTATE:										
-prostatitis, interstitial, chronic	1	-	-	-	-	-	-	2	-	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	1	-	-	2	-	-	-	-	-	2
-lymphoma, malignant	-	P	-	-	-	-	-	-	-	-
STOMACH:										
-dilatation, mucosal glands	-	-	-	1	-	1	-	-	-	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:	-	-	-	-	-	-	-	-	-	-
THYROID:										
-hyperplasia, C-cell, focal	-	-	-	-	1	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-4 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	3711	3712	3713	3714	3715	3716	3717	3718	3719	3720
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID (Continued):										
-hypertrophy and hyperplasia, follicular epithelium	4	4	4	4	4	4	4	4	4	4
TRACHEA:										
-tracheitis, chronic, focal	-	1	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:										
-cyst(s)	-	-	-	-	-	P	-	P	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	1	-	-	-	-	-	-	-	1	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:										
-inflammation, chronic, mucosa	-	-	-	-	-	-	-	-	-	1
-parasite(s), lumen	-	-	-	P	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EAR(S):										
-chondritis, auricular					<3>					
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-infiltration, mononuclear-cell, focal/multifocal	-	-	-	1	-	-	-	-	-	-
LIVER:										
-inflammation, chronic, focal/multifocal	-	1	-	-	-	-	-	-	-	-
LUNG:										
-macrophages, alveoli, focal	-	-	1	-	-	-	-	-	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	3	3	-	-	1	-	3	-	-	-
LYMPH NODE, MESENTERIC:										
-histiocytosis	-	-	-	-	-	-	-	-	2	-
MAMMARY GLAND:										
-inflammation, subacute	-	-	1	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-	-	-
PARATHYROID:	*	-	-	-	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):										
-dermatitis, chronic	-	-	-	-	-	-	1	-	-	-
-hyperplasia/hyperkeratosis, epidermis	-	-	-	-	-	-	2	-	-	2
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:	-	-	-	-	-	-	-	-	-	-
STOMACH:										
-dilatation, mucosal glands	1	-	-	-	-	-	-	-	-	-
THYMUS:										
-atrophy	-	-	3	-	-	-	-	-	-	-
-cyst(s)	-	-	-	-	P	-	-	-	-	-
THYROID:										
-follicle(s), cystic	-	-	-	-	-	-	-	-	-	P
-hypertrophy and hyperplasia, follicular epithelium	-	-	1	-	-	3	-	-	-	-
-ultimobranchial body/cyst	-	-	-	-	P	-	-	-	-	-
TRACHEA:										
-tracheitis, chronic, focal	-	-	-	-	1	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
UTERUS:										
-distention, lumen	-	<->	-	-	-	1	-	-	-	1
-macrophages, pigmented	3	<->	3	-	2	1	-	3	3	3
VAGINA:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3811	3812	3813	3814	3815	3816	3818	3819	3821	3822
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	-	-	-	-	1	-	1	1	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:										
-edema, submucosa	-	-	-	-	-	-	-	-	2	-
-parasite(s), lumen	-	-	-	-	-	-	P	-	-	-
CERVIX:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EAR(S):								<->		
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:	-	-	-	-	-	-	-	-	-	-
LIVER:										
-inflammation, chronic, focal/multifocal	-	-	-	-	-	1	-	-	-	-
LUNG:										
-inflammation, interstitial, focal	-	-	-	-	-	-	-	1	-	-
-macrophages, alveoli, focal	-	-	-	1	-	-	-	-	-	1
-proliferation, lymphoid, peribronchial/perivascular	1	-	-	-	-	-	-	-	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	3	3	2	-	3	1	2	3	1
-lymphadenopathy, cystic	-	-	-	-	-	-	-	-	2	-
LYMPH NODE, MESENTERIC:										
-histiocytosis	2	-	-	-	-	-	-	-	-	-
-hyperplasia, lymphoid	-	-	-	-	-	2	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3811	3812	3813	3814	3815	3816	3818	3819	3821	3822
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
MAMMARY GLAND:	-	-	-	-	-	-	-	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	*	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-	-	-
RECTUM:										
-parasite(s), lumen	-	-	-	P	P	-	P	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):										
-dermatitis, chronic	-	-	-	-	-	-	2	2	-	-
-hyperplasia/hyperkeratosis, epidermis	3	-	-	-	-	-	2	3	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-cyst(s)	-	-	-	-	-	-	-	-	-	P
STOMACH:										
-dilatation, mucosal glands	-	-	-	-	-	-	-	1	-	-
THYMUS:										
-cyst(s)	-	-	P	-	-	-	-	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	1	-	-	-	-	-	-	-
-ultimobranchial body/cyst	-	-	P	-	-	-	-	-	-	-
TRACHEA:										
-tracheitis, chronic, focal	-	-	-	-	-	-	-	-	1	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
UTERUS:										
-distention, lumen	-	-	-	-	-	-	-	-	-	2
-macrophages, pigmented	3	3	4	-	3	-	3	-	2	2

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	3811	3812	3813	3814	3815	3816	3818	3819	3821	3822
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
VAGINA:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1
Animal Number:	3823	3824	3825	3826	3827	3828	3829	3830
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:								
-hypertrophy, cortical, focal	-	1	-	-	-	-	-	-
-vacuolation, cortical, focal	-	1	1	-	-	-	1	-
AORTA:	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-	-
COLON:								
-parasite(s), lumen	-	-	-	-	-	P	-	-
DUODENUM:	-	-	-	-	-	-	-	-
EAR(S):								
-chondritis, auricular		<3>				-		
-dermatitis, chronic		-				<2>		
ESOPHAGUS:	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	*	-	-
JEJUNUM:	-	-	-	-	-	-	-	-
KIDNEYS:								
-infiltration, mononuclear-cell, focal/multifocal	-	-	-	-	-	-	-	1
-mineralization, multifocal	-	-	1	-	1	-	-	-
-mineralization, pelvis	1	-	-	-	-	-	-	-
LIVER:								
-inflammation, chronic, focal/multifocal	-	-	-	1	-	-	-	1
LUNG:								
-macrophages, alveoli, focal	1	-	2	-	1	1	1	1
LYMPH NODE, MANDIBULAR:								
-hyperplasia, lymphocytic/plasmacytic	-	1	-	3	-	1	2	3
LYMPH NODE, MESENTERIC:								
-edema	-	3	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1
Animal Number:	3823	3824	3825	3826	3827	3828	3829	3830
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC (Continued):								
-histiocytosis	-	-	-	-	-	-	-	2
MAMMARY GLAND:								
-cystic gland/duct	-	-	-	-	-	P	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-
PARATHYROID:	*	*	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):								
-hyperplasia/hyperkeratosis, epidermis	-	3	-	2	3	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-
SPLEEN:	-	-	-	-	-	-	-	-
STOMACH:								
-cystic gland(s), glandular mucosa	-	-	P	-	-	-	-	-
THYMUS:								
-cyst(s)	-	-	P	P	-	-	-	-
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	-	2	-	-
-inflammation, chronic, focal	-	-	-	-	-	-	1	-
-ultimobranchial body/cyst	-	-	-	P	-	P	-	-
TRACHEA:	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	*
UTERUS:								
-macrophages, pigmented	2	3	3	1	3	-	2	1

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-5 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	1	1	1	1	1	1	1	1
Animal Number:	3823	3824	3825	3826	3827	3828	3829	3830
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
VAGINA:	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-6

Histomorphologic Observations
P1 Generation

Dose Group:	2	2	2	2	2	2	2	2
Animal Number:	3831	3833	3834	3837	3838	3842	3843	3845
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
EAR(S):								
-chondritis, auricular						<4>		
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	1	2	-	-	1	3	2	-
-ultimobranchial body/cyst	-	-	P	P	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-6 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	2	2	2	2	2	2	2	2
Animal Number:	3846	3847	3848	3849	3850	3851	3852	3854
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
EAR(S):								
-chondritis, auricular						<4>		
MAMMARY GLAND:								
-adenocarcinoma							<XM-2>	
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	1	-	*	-	-	3	-	-
-ultimobranchial body/cyst	-	P	*	-	P	P	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-6 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	2	2	2	2	2	2
Animal Number:	3855	3856	3857	3858	3859	3860
Sex:	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS
THYROID:						
-hypertrophy and hyperplasia, follicular epithelium	2	-	3	-	1	-
-ultimobranchial body/cyst	-	P	P	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-7

Histomorphologic Observations
P1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3
Animal Number:	3861	3862	3863	3864	3865	3866	3867	3868	3869
Sex:	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:									
-follicle(s), cystic	-	-	-	-	P	-	-	-	-
-hypertrophy and hyperplasia, follicular epithelium	3	3	3	-	3	-	3	2	1
-ultimobranchial body/cyst	-	-	P	-	P	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-7 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3
Animal Number:	3872	3873	3875	3876	3877	3878	3879	3880	3881
Sex:	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SD
EAR(S):									
-chondritis, auricular					<4>		<2>		
THYROID:									
-hypertrophy and hyperplasia, follicular epithelium	2	2	3	3	2	-	2	3	-
-ultimobranchial body/cyst	P	P	-	-	-	P	-	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-7 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	3	3	3	3	3	3	3	3
Animal Number:	3882	3883	3884	3885	3887	3888	3889	3890
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
EAR(S):								
-chondritis, auricular								<4>
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	-	2	1	1	-	2	2	1
-ultimobranchial body/cyst	-	-	P	P	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-8

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4
Animal Number:	3891	3892	3893	3894	3895	3897	3899	3900
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:								
-vacuolation, cortical, focal	1	-	-	-	-	-	-	-
AORTA:	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-
CECUM:								
-parasite(s), lumen	P	-	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-	-
COLON:								
-parasite(s), lumen	P	-	-	P	*	-	-	P
DUODENUM:	-	-	-	-	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-
KIDNEYS:								
-dilatation, cortical tubules	1	-	-	-	-	-	-	-
-infiltration, mononuclear-cell, focal/multifocal	-	-	-	-	1	-	-	-
-vacuolation, cortical tubules	2	-	-	-	-	-	-	-
LIVER:								
-inflammation, chronic, focal/multifocal	-	-	-	-	1	-	1	-
-necrosis, focal	-	-	-	-	1	-	-	-
LUNG:								
-macrophages, alveoli, focal	-	-	2	-	-	-	-	-
LYMPH NODE, MANDIBULAR:								
-hyperplasia, lymphocytic/plasmacytic	2	-	-	-	1	2	-	2
LYMPH NODE, MESENTERIC:								
-histiocytosis	-	-	-	-	-	-	-	2
MAMMARY GLAND:	-	-	-	-	-	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-8 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4
Animal Number:	3891	3892	3893	3894	3895	3897	3899	3900
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
NERVE, SCIATIC:	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-	-
PITUITARY:	-	-	-	-	*	-	-	-
RECTUM:								
-parasite(s), lumen	-	-	-	-	-	P	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	*	*	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-
SPLEEN:	-	-	-	-	-	-	-	-
STOMACH:	-	-	-	-	-	-	-	-
THYMUS:								
-congestion	-	1	-	-	-	-	-	-
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	4	4	4	4	4	4	4	4
-ultimobranchial body/cyst	-	-	-	-	P	P	-	-
TRACHEA:	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-
UTERUS:								
-macrophages, pigmented	2	-	-	-	3	3	3	-
VAGINA:	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-8 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4
Animal Number:	3901	3902	3904	3905	3906	3907	3910	3911
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:								
-hypertrophy, cortical, focal	-	-	-	-	-	-	1	-
-vacuolation, cortical, focal	-	-	-	-	-	1	-	-
AORTA:	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-	*
COLON:								
-parasite(s), lumen	-	-	P	P	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-
KIDNEYS:								
-mineralization, multifocal	1	-	-	-	-	-	1	-
LIVER:								
-inflammation, chronic, focal/multifocal	-	-	-	-	1	-	-	-
LUNG:								
-infiltration, eosinophilic, perivascular and peribronchial	-	-	-	-	-	1	-	-
-macrophages, alveoli, focal	1	-	1	-	1	1	-	-
LYMPH NODE, MANDIBULAR:								
-hyperplasia, lymphocytic/plasmacytic	2	3	1	-	2	3	3	1
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	-	-	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-8 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4
Animal Number:	3901	3902	3904	3905	3906	3907	3910	3911
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
OVARIES:	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	*	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):								
-dermatitis, chronic	-	3	-	-	-	-	-	-
-hyperplasia/hyperkeratosis, epidermis	-	-	2	-	-	-	-	-
-necrosis, epidermis, focal	-	2	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-
SPLEEN:	-	-	-	-	-	-	-	-
STOMACH:	-	-	-	-	-	-	-	-
THYMUS:								
-congestion	-	-	1	-	-	*	-	-
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	4	4	3	4	4	4	4	4
-ultimobranchial body/cyst	-	-	-	-	P	-	-	-
TRACHEA:								
-tracheitis, chronic, focal	-	-	1	1	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-
UTERUS:								
-macrophages, pigmented	3	-	2	1	3	-	3	-
VAGINA:	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-8 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4
Animal Number:	3912	3913	3915	3916	3917	3918	3919	3920
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:								
-vacuolation, cortical, focal	-	1	-	-	-	1	1	-
AORTA:	-	-	-	-	-	-	-	-
BONE (FEMUR):								
-cyst(s), epiphysis	P	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-
KIDNEYS:								
-fibrosis, focal	-	-	-	-	1	-	-	-
-mineralization, multifocal	1	-	-	1	1	-	-	1
LIVER:								
-cellular alteration, clear-cell, focal	-	1	-	-	-	-	-	-
-necrosis, focal	-	-	-	-	-	-	1	-
LUNG:								
-infiltration, eosinophilic, perivascular and peribronchial	-	-	-	-	1	-	-	-
-macrophages, alveoli, focal	1	1	1	1	-	1	-	1
LYMPH NODE, MANDIBULAR:								
-hyperplasia, lymphocytic/plasmacytic	-	-	3	1	3	1	-	2
LYMPH NODE, MESENTERIC:								
-histiocytosis	-	-	-	-	3	-	-	-
MAMMARY GLAND:								
-cystic gland/duct	-	-	-	-	-	-	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE I-8 (Continued)

Histomorphologic Observations
P1 Generation

Dose Group:	4	4	4	4	4	4	4	4
Animal Number:	3912	3913	3915	3916	3917	3918	3919	3920
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):								
-dermatitis, chronic	-	-	-	1	-	-	-	-
-hyperplasia/hyperkeratosis, epidermis	2	-	-	-	-	-	3	3
SPINAL CORD, CERVICAL:	-	-	-	*	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-
SPLEEN:	-	-	-	-	-	-	-	-
STOMACH:								
-dilatation, mucosal glands	1	1	-	-	1	-	-	-
THYMUS:								
-atrophy	-	-	-	-	-	-	-	3
-cyst(s)	-	-	-	-	-	-	P	-
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	4	4	4	4	4	4	3	4
TRACHEA:	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-
UTERUS:								
-macrophages, pigmented	3	3	3	-	3	3	3	3
VAGINA:	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

APPENDIX II

HISTOMORPHOLOGIC OBSERVATIONS

F1 GENERATION

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

KEY TO HISTOMORPHOLOGIC OBSERVATIONS

-	=	No change (not remarkable, within normal histologic limits or indicated change not present).
*	=	Tissue not available (specified tissue missing, insufficient tissue in plane of section, artifact precludes evaluation, or specified tissue not present in section).
< >	=	Microscopic finding(s) in tissue(s) with gross observation(s).
<->	=	Within normal limits [no microscopic change(s) to correlate with the gross observation(s)].
A	=	Advanced autolysis precludes evaluation.
P	=	Indicated change or lesion present
1	=	Minimal degree or amount of indicated change or lesion.
2	=	Mild degree or amount of indicated change or lesion.
3	=	Moderate degree or amount of indicated change or lesion.
4	=	Marked degree or amount of indicated change or lesion.
XB	=	Primary benign neoplasm
XM	=	Primary malignant neoplasm
SS	=	Sacrifice-Scheduled
SD	=	Spontaneous Death

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	5450	7001	7002	7003	7004	7005	7006	7007	7008	7009
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-hypertrophy, cortical, focal	-	-	-	-	-	1	-	-	-	-
-vacuolation, cortical, focal	-	-	-	1	-	-	1	-	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-hypospermia	-	-	-	-	<4>	-	-	-	-	-
-infiltration, mononuclear-cell, focal	-	-	1	-	-	-	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	-	-	-	-	-	-	1	-	-	-
-hemosiderosis	-	-	-	-	-	-	1	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-dilatation, pelvis	-	-	-	-	-	<2>	-	-	-	-
-dilatation, tubules, papilla	-	-	-	-	-	-	-	-	-	1
-glomerulonephritis, chronic	-	-	-	-	-	-	-	2	-	-
-hyaline droplets, cortical tubules	-	-	3	1	-	-	-	-	-	-
-infiltration, mononuclear-cell, focal/multifocal	1	-	-	-	-	-	1	-	-	-
-mineralization, multifocal	-	-	-	-	-	-	-	-	-	1
LIVER:										
-inflammation, chronic, focal/multifocal	1	1	-	1	1	-	1	-	-	1
LUNG:										
-macrophages, alveoli, focal	-	-	1	1	-	-	-	1	1	-
-proliferation, lymphoid, peribronchial/perivascular	-	-	-	-	-	-	-	1	-	1
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	-	-	-	-	2	3	2	3	1

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	5450	7001	7002	7003	7004	7005	7006	7007	7008	7009
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	-	-	*	-	-	-	*
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	-	-	-	-	-	2	-	-
-fibrosis, islet, focal	-	-	-	-	-	-	-	1	-	1
-hemorrhage	-	-	-	-	-	-	-	-	-	1
-inflammation, chronic, focal/multifocal	-	-	-	1	1	-	-	-	-	-
-inflammation, subacute, focal	-	-	-	-	-	-	-	-	-	1
PARATHYROID:	-	-	-	-	-	-	*	*	*	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	1	1	-	-	3	-	-	-	-	-
PROSTATE:										
-prostatitis, interstitial, chronic	1	-	-	-	-	1	-	-	1	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):										
-hyperplasia, epidermis	-	-	-	-	-	1	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	*	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	-	-	-	-	-	-	1	-	-	-
-hemosiderosis	-	-	2	-	-	2	1	1	-	-
STOMACH:										
-dilatation, mucosal glands	-	-	-	2	-	-	-	-	-	-
TESTIS:										
-atrophy, diffuse	-	-	-	-	<4>	-	-	-	-	-
THYMUS:										
-congestion	-	-	-	-	-	-	1	-	-	2
THYROID:										
-ultimobranchial body/cyst	P	P	-	P	-	P	-	-	P	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL I416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	5450	7001	7002	7003	7004	7005	7006	7007	7008	7009
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
TRACHEA:										
-tracheitis, chronic, focal	-	-	-	-	-	-	-	-	1	1
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7010	7011	7012	7013	7015	7016	7017	7018	7019	7020
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	-	-	-	3	-	-	-	-	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:										
-inflammation, chronic, mucosa	-	-	2	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	-	1	1	-	1	1	-	1	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	-	-	-	-	1	1	-	-	1	-
-hemosiderosis	-	-	-	-	1	1	-	-	1	-
-inflammation, chronic, multifocal	-	-	-	-	-	-	-	1	1	1
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-cyst(s), medulla	-	-	-	-	-	-	P	-	-	-
-degeneration/basophilia, cortical tubules, focal	-	-	-	-	-	-	-	1	-	-
-glomerulonephritis, chronic	-	-	-	-	1	-	-	-	-	-
-hyaline droplets, cortical tubules	-	-	-	-	-	2	-	-	1	-
LIVER:										
-inflammation, chronic, focal/multifocal	1	-	-	1	-	-	1	-	-	1
LUNG:										
-macrophages, alveoli, focal	-	-	2	2	-	-	-	1	-	-
-proliferation, lymphoid, peribronchial/perivascular	-	-	-	-	-	-	-	-	1	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	1	-	1	2	3	1	1	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7010	7011	7012	7013	7015	7016	7017	7018	7019	7020
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	-	*	-	-	-	-	*
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-fibrosis, islet, focal	2	-	-	1	-	-	-	-	1	2
-hemorrhage	1	-	2	-	-	-	-	-	-	-
-inflammation, chronic, focal/multifocal	-	1	-	-	-	-	-	-	-	-
-inflammation, subacute, focal	-	-	1	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	*	-	-	*	-	-	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	1	1	-	-	3	1	1	1	1	-
PROSTATE:										
-prostatitis, interstitial, chronic	-	-	-	-	2	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hemosiderosis	-	-	-	-	-	2	2	-	2	-
STOMACH:										
-dilatation, mucosal glands	1	-	-	-	-	-	-	2	-	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	1	-	3	-	-	-	1	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	-	-	-	-	2	2
-ultimobranchial body/cyst	-	-	-	P	-	-	-	-	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7010	7011	7012	7013	7015	7016	7017	7018	7019	7020
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
TRACHEA:										
-tracheitis, chronic, focal	1	-	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7021	7022	7023	7024	7025	7026	7027	7028	7029	7030
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-hypertrophy, cortical, focal	-	-	-	-	-	-	-	-	1	-
-vacuolation, cortical, focal	-	-	-	-	-	-	-	1	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):										
-cyst(s), epiphysis	-	-	-	-	-	-	-	P	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	-	1	-	-	-	-	1	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:										
-mineralization, cornea, focal	-	-	-	-	-	-	-	-	1	-
HEART:										
-fibrosis, myocardial, focal	-	-	1	1	-	-	-	-	-	-
-hemosiderosis	-	-	-	1	-	-	-	-	-	-
-inflammation, chronic, focal	-	-	1	-	-	-	-	-	-	-
-inflammation, chronic, multifocal	-	-	-	-	-	1	-	-	1	1
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-cyst(s), cortex	-	-	-	-	P	-	-	-	-	-
-degeneration/basophilia, cortical tubules, focal	-	-	-	-	1	-	-	-	1	-
-dilatation, pelvis	-	-	-	2	-	-	-	-	-	-
-hyaline droplets, cortical tubules	-	-	1	2	2	-	-	2	-	2
LIVER:										
-inflammation, chronic, focal/multifocal	1	-	-	1	1	-	1	1	1	1
LUNG:										
-macrophages, alveoli, focal	-	-	1	-	-	1	-	-	1	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	-	-	1	-	-	-	3	-	1

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7021	7022	7023	7024	7025	7026	7027	7028	7029	7030
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	*	-	-	*	-	-	*	*	-	-
MUSCLE, SKELETAL:										
-inflammation, chronic, focal	-	-	-	-	-	-	1	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	-	1	-	-	-	-	-	-
-fibrosis, islet, focal	-	-	-	1	-	-	2	-	2	-
-inflammation, chronic, focal/multifocal	-	-	-	1	1	-	-	-	-	-
-inflammation, subacute, focal	-	-	-	-	-	-	-	-	1	-
PARATHYROID:	-	-	-	-	-	-	-	-	-	-
PITUITARY:										
-cyst(s), pars distalis	-	-	-	-	-	-	P	-	-	-
-hypertrophy/vacuolation, pars distalis	-	-	2	1	-	-	1	-	-	-
PROSTATE:										
-prostatitis, interstitial, chronic	-	-	-	1	2	2	2	-	-	1
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	*	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hemosiderosis	-	-	-	-	-	-	-	3	-	-
STOMACH:										
-cyst(s), squamous	-	-	P	-	-	-	-	-	-	-
-dilatation, mucosal glands	-	1	-	-	-	-	-	-	-	1
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	-	-	-	-	-	1	-	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	-	-	-	2	3	3

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-1 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7021	7022	7023	7024	7025	7026	7027	7028	7029	7030
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID (Continued):										
-ultimobranchial body/cyst	-	-	-	P	-	-	-	P	P	-
TRACHEA:	-	-	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:										
-cyst(s)	P	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-2

Histomorphologic Observations
F1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	7031	7032	7033	7034	7035	7036	7037	7038	7039	7040
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
EAR(S):										
-chondritis, auricular						<2>				
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	2	-	-	-	3	-	-	-	-
-ultimobranchial body/cyst	-	-	-	-	-	-	-	-	P	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-2 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	7041	7042	7043	7044	7045	7046	7047	7048	7049	7050
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	3	-	-	-	2	-	-	3	-
-ultimobranchial body/cyst	-	-	-	-	-	-	P	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-2 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	7051	7052	7053	7054	7055	7056	7057	7058	7059	7060
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	-	-	-	-	-	-	-	-	-
-ultimobranchial body/cyst	-	P	P	-	P	P	P	-	P	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-3

Histomorphologic Observations
F1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	7061	7062	7063	7064	7065	7066	7067	7068	7069	7070
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
EPIDIDYMIDES:										
-hypospermia										<4>
PROSTATE:										
-prostatitis, suppurative										<4>
SKIN (GROSS LESION):										
-dermatitis, chronic, focal										<3>
TESTIS:										
-atrophy, diffuse										<4>
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	3	1	-	-	3	4	3
-ultimobranchial body/cyst	P	-	-	P	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-3 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	7071	7072	7073	7074	7075	7076	7077	7078	7079	7080
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	4	2	-	3	-	4	4	2	4

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-3 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	7081	7082	7083	7084	7085	7086	7087	7088	7089	7090
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	4	1	2	3	1	-	2	-	-
-ultimobranchial body/cyst	P	-	P	-	-	-	-	-	P	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7091	7092	7093	7094	7095	7096	7097	7098	7099	7100
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	-	2	-	-	-	-	1	-	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:										
-hyperplasia, lymphoid	-	-	-	-	-	-	-	-	-	1
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	-	1	-	-	-	-	1	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EXTREMITIES:										<->
EYES:										
-atrophy, retinal, diffuse	-	-	<4>	-	-	-	-	-	-	-
-mineralization, cornea, focal	-	-	<1>	-	-	-	-	1	-	-
HEART:										
-fibrosis, myocardial, focal	-	-	-	1	-	-	-	-	-	-
-inflammation, chronic, multifocal	-	-	-	-	1	1	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-cyst(s), cortex	P	-	-	-	-	-	-	-	-	-
-degeneration/basophilia, cortical tubules, focal	-	-	-	-	-	-	1	-	-	-
-dilatation, cortical tubules	-	-	-	-	-	-	1	-	-	1
-hyaline droplets, cortical tubules	-	-	-	-	-	-	-	-	2	-
-infiltration, mononuclear-cell, focal/multifocal	1	-	-	-	-	-	1	-	-	1
LIVER:										
-hematopoiesis, extramedullary	-	-	-	-	-	1	-	-	-	-
-inflammation, chronic, focal/multifocal	-	-	-	-	1	-	1	1	1	1
LUNG:										
-inflammation, interstitial, acute, focal	-	-	-	-	-	1	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7091	7092	7093	7094	7095	7096	7097	7098	7099	7100
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
LUNG (Continued):										
-macrophages, alveoli, focal	-	-	1	-	-	-	-	-	2	-
-proliferation, lymphoid, peribronchial/perivascular	-	-	1	-	-	-	-	-	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	-	1	3	-	-	-	2	-	2
LYMPH NODE, MESENTERIC:	-	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	*	-	-	*	-	*	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-atrophy, acinar, focal	-	-	1	-	-	2	-	-	-	-
-fibrosis, islet, focal	-	-	-	-	-	2	-	-	-	-
-hemorrhage	-	1	-	-	-	-	-	-	-	-
-hypertrophy, acinar-cell, focal	-	-	-	-	-	-	1	-	-	-
-inflammation, acute, focal	-	1	-	-	-	-	-	-	-	-
-inflammation, chronic, focal/multifocal	-	-	1	-	-	2	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-	-	-	-
PITUITARY:										
-hyperplasia, pars distalis, focal	-	-	-	-	-	-	-	1	-	-
PROSTATE:										
-prostatitis, interstitial, chronic	-	-	1	-	-	-	-	1	-	1
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	*	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	-	-	-	-	-	-	-	-	-	1
-hemosiderosis	-	-	-	2	-	-	-	1	-	-
STOMACH:										
-dilatation, mucosal glands	-	-	-	2	1	2	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7091	7092	7093	7094	7095	7096	7097	7098	7099	7100
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	1	-	-	-	-	2	1	-	-	-
THYROID:										
-adenoma, follicular	-	-	-	XB	-	-	-	-	-	-
-hypertrophy and hyperplasia, follicular epithelium	4	4	4	4	4	4	4	3	4	3
-ultimobranchial body/cyst	-	-	-	-	-	-	-	-	-	P
TRACHEA:										
-tracheitis, chronic, focal	-	-	-	1	-	-	-	-	-	-
URINARY BLADDER:										
-infiltration, mononuclear-cell, focal	-	-	-	-	1	*	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7101	7102	7103	7104	7105	7106	7107	7108	7109	7110
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	2	-	-	-	-	-	2	-	3	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	-	-	-	-	1	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:										
-mineralization, cornea, focal	-	-	-	-	-	-	-	-	-	1
HEART:										
-fibrosis, myocardial, focal	-	-	-	1	-	2	2	-	-	-
-hemosiderosis	-	-	-	1	-	1	1	-	-	-
-inflammation, chronic, multifocal	-	1	-	-	-	-	2	-	-	1
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-cast(s), granular	-	-	-	-	-	-	-	P	-	-
-degeneration/basophilia, cortical tubules, focal	-	-	-	-	-	-	1	-	-	-
-dilatation, medullary tubules	-	-	-	-	-	-	-	1	-	-
-dilatation, pelvis	-	-	2	-	-	-	2	2	-	-
-glomerulonephritis, chronic	-	-	-	-	-	1	-	2	-	-
-hyaline droplets, cortical tubules	-	-	2	-	-	-	2	3	3	3
-infiltration, mononuclear-cell, focal/multifocal	-	-	-	-	-	1	-	-	-	-
LIVER:										
-inflammation, chronic, focal/multifocal	1	-	-	1	-	1	1	1	-	-
LUNG:										
-macrophages, alveoli, focal	-	-	-	-	-	1	-	1	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	1	-	3	2	1	4	-	3	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7101	7102	7103	7104	7105	7106	7107	7108	7109	7110
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:										
-histiocytosis	-	-	-	1	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	*	*	-	-	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-fibrosis, islet, focal	-	-	-	-	-	-	1	-	-	-
-hemorrhage	-	-	-	-	-	1	-	-	-	-
-inflammation, chronic, focal/multifocal	-	-	-	1	-	1	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-	-	*	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	-	-	-	-	-	-	-	-	3	-
PROSTATE:										
-prostatitis, interstitial, chronic	-	-	-	3	1	-	-	-	1	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hemosiderosis	-	-	-	2	-	2	-	-	-	3
STOMACH:										
-dilatation, mucosal glands	-	-	-	-	-	-	-	-	1	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	-	-	-	2	-	-	2	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	4	-	4	4	4	4	4	4	4	3
-ultimobranchial body/cyst	P	P	-	-	-	P	-	P	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7101	7102	7103	7104	7105	7106	7107	7108	7109	7110
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
TRACHEA:	-	-	-	-	-	-	-	-	-	-
URINARY BLADDER:										
-infiltration, mononuclear-cell, focal	1	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:										
-cyst(s)	-	P	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7111	7112	7113	7114	7115	7116	7117	7118	7119	7120
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SD	SS	SD	SS	SD	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	-	2	-	2	-	-	-	-	-	3
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:										
-hyperplasia, lymphoid	A	-	-	-	-	1	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EPIDIDYMIDES:										
-infiltration, mononuclear-cell, focal	-	1	-	-	-	-	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-	-
HEART:										
-fibrosis, myocardial, focal	-	-	-	1	-	-	-	-	-	2
-hemosiderosis	-	1	-	1	-	-	-	-	-	2
-inflammation, chronic, multifocal	-	-	-	-	-	1	-	-	-	-
ILEUM:	*	-	-	-	-	-	-	-	-	-
JEJUNUM:	A	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-cyst(s), cortex	-	-	-	-	-	-	-	P	-	-
-degeneration/basophilia, cortical tubules, focal	-	1	-	-	-	-	-	1	1	-
-dilatation, pelvis	-	-	-	-	-	-	2	-	-	<2>
-hyaline droplets, cortical tubules	-	-	3	-	-	-	-	-	-	-
-infiltration, mononuclear-cell, focal/multifocal	-	-	-	-	-	-	-	1	-	-
LIVER:										
-inflammation, chronic, focal/multifocal	-	-	2	-	-	1	-	-	-	1
LUNG:										
-macrophages, alveoli, focal	-	-	-	-	-	1	1	-	-	-
-proliferation, lymphoid, peribronchial/perivascular	-	-	-	-	-	-	1	-	-	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	1	3	-	-	-	1	-	-	1

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7111	7112	7113	7114	7115	7116	7117	7118	7119	7120
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SD	SS	SD	SS	SD	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:										
-histiocytosis	-	-	2	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	*	-	-	-	-	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
PANCREAS:										
-fibrosis, islet, focal	-	-	1	-	-	1	-	-	1	-
-inflammation, chronic, focal/multifocal	-	2	-	-	-	-	1	-	-	-
PARATHYROID:	-	-	*	-	-	-	*	-	-	-
PITUITARY:										
-hypertrophy/vacuolation, pars distalis	-	2	1	1	-	2	1	2	2	1
PROSTATE:	-	-	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SEMINAL VESICLES:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):	-	-	-	-	-	*	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hematopoiesis, extramedullary	A	-	-	-	1	1	-	-	-	-
-hemosiderosis	A	-	-	-	-	-	-	-	1	-
STOMACH:										
-dilatation, mucosal glands	A	-	-	1	-	-	-	-	-	-
TESTIS:	-	-	-	-	-	-	-	-	-	-
THYMUS:										
-congestion	3	-	-	2	1	-	-	-	1	-
THYROID:										
-hyperplasia, follicular, focal/nodular	A	-	-	-	-	-	4	-	-	-
-hypertrophy and hyperplasia, follicular epithelium	A	4	4	4	-	4	-	4	4	4
-ultimobranchial body/cyst	A	-	-	-	P	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-4 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4	4
Animal Number:	7111	7112	7113	7114	7115	7116	7117	7118	7119	7120
Sex:	M	M	M	M	M	M	M	M	M	M
Death Type:	SD	SS	SD	SS	SD	SS	SS	SS	SS	SS
TRACHEA:										
-tracheitis, chronic, focal	-	-	1	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-5

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7202	7204	7205	7208	7210	7211	7213	7214	7215	7216
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	-	-	-	-	1	-	-	1	1	1
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-	-
CERVIX:	-	-	*	-	-	-	-	-	-	-
COLON:										
-parasite(s), lumen	-	-	-	-	-	-	-	P	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
ESOPHAGUS:	-	-	-	-	-	-	-	-	-	-
EYES:										
-atrophy, retinal, diffuse	-	-	-	-	<3>	-	-	-	-	-
-keratitis, chronic, focal	-	-	-	-	<2>	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:										
-cyst(s), medulla	-	-	P	-	-	-	-	-	-	-
-dilatation, pelvis	-	-	2	-	-	-	-	-	-	-
LIVER:										
-inflammation, chronic, focal/multifocal	-	-	-	-	1	1	1	-	1	-
LUNG:										
-inflammation, interstitial, acute, focal	-	-	-	-	-	1	-	-	-	-
-macrophages, alveoli, focal	-	1	1	1	1	1	-	1	1	-
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	1	2	-	3	-	-	1	3	3	-
LYMPH NODE, MESENTERIC:										
-congestion	-	-	-	-	-	-	1	-	-	-
-histiocytosis	-	-	-	-	-	2	2	-	-	-
-hyperplasia, lymphoid	2	-	-	-	-	-	-	-	-	-
MAMMARY GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-5 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7202	7204	7205	7208	7210	7211	7213	7214	7215	7216
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
OVARIES:										
-cyst(s)	P	-	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	*	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-	-	-
RECTUM:										
-parasite(s), lumen	-	P	P	-	-	-	P	-	P	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):										
-dermatitis, chronic, focal	-	-	-	-	-	-	-	-	-	1
-hyperplasia/hyperkeratosis, epidermis	-	-	-	-	-	-	-	1	2	1
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hemosiderosis	1	2	-	-	-	-	2	-	-	-
STOMACH:										
-dilatation, mucosal glands	-	-	-	-	2	-	-	-	-	-
THYMUS:										
-atrophy	2	-	-	-	-	2	-	2	-	-
-cyst(s)	-	-	-	-	P	-	-	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	1	-	1	1	-	-	-	-
-ultimobranchial body/cyst	P	-	P	P	P	-	P	P	P	P
TRACHEA:										
-tracheitis, chronic, focal	-	1	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
UTERUS:										
-deciduoma	-	-	-	-	-	-	P	-	-	-
-distention, lumen	-	-	-	-	-	-	-	3	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-5 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7202	7204	7205	7208	7210	7211	7213	7214	7215	7216
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
UTERUS (Continued):										
-macrophages, pigmented	1	3	2	3	-	3	-	2	3	3
VAGINA:	-	-	*	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-5 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7217	7218	7219	7223	7224	7225	7226	7227	7228	7229
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:										
-vacuolation, cortical, focal	1	-	-	-	1	-	-	-	-	-
AORTA:	-	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-	-
CECUM:										
-parasite(s), lumen	-	-	-	-	-	-	-	-	P	-
CERVIX:	-	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-	-
EAR(S):										
-chondritis, auricular		<4>								<4>
ESOPHAGUS:	*	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	(-)	-	-	-
HEART:	-	-	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-	-
KIDNEYS:	-	-	-	-	-	-	-	-	-	-
LIVER:										
-hematopoiesis, extramedullary	-	-	-	-	-	-	1	-	-	-
-inflammation, chronic, focal/multifocal	1	-	-	-	1	-	-	-	-	-
LUNG:										
-infiltration, eosinophilic, perivascular and peribronchial	*	-	-	1	1	-	-	-	-	-
-macrophages, alveoli, focal	*	1	1	-	-	-	-	2	1	1
LYMPH NODE, MANDIBULAR:										
-hyperplasia, lymphocytic/plasmacytic	-	3	-	2	3	-	3	-	1	-
LYMPH NODE, MESENTERIC:										
-congestion	-	1	-	-	-	-	-	-	-	-
-histiocytosis	-	-	-	-	-	-	1	1	-	-
-hyperplasia, lymphoid	-	-	-	2	-	-	-	-	1	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-5 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7217	7218	7219	7223	7224	7225	7226	7227	7228	7229
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
MAMMARY GLAND:	-	-	-	-	-	-	-	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):										
-dermatitis, chronic, focal	3	-	-	-	-	-	-	-	2	-
-hyperplasia/hyperkeratosis, epidermis	-	-	-	-	-	-	-	1	-	-
-necrosis, focal	3	-	-	-	-	-	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-	-
SPLEEN:										
-hemosiderosis	-	-	-	2	-	-	-	-	-	-
STOMACH:										
-dilatation, mucosal glands	1	2	-	-	-	-	-	-	-	-
THYMUS:										
-cyst(s)	*	-	P	-	-	-	-	-	-	-
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	1	-	2	-	-	-	-	-	-	2
-ultimobranchial body/cyst	P	P	P	-	-	-	-	P	P	-
TRACHEA:	*	-	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-	-
UTERUS:										
-distention, lumen	2	-	2	-	-	-	-	-	-	-
-macrophages, pigmented	3	2	-	3	2	2	2	3	3	2
VAGINA:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-5 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	1	1	1	1	1	1	1	1	1	1
Animal Number:	7217	7218	7219	7223	7224	7225	7226	7227	7228	7229
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-6

Histomorphologic Observations
F1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	7231	7232	7233	7234	7235	7236	7237	7238	7239	7240
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	1	1	1	-	-	-	-	-	-
-ultimobranchial body/cyst	-	P	-	P	P	P	-	-	P	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-6 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	2	2	2	2	2	2	2	2	2	2
Animal Number:	7241	7242	7244	7245	7246	7247	7248	7249	7250	7251
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	2	1	-	-	-	-	-	-
-ultimobranchial body/cyst	-	-	P	P	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-6 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	2	2	2	2	2	2	2
Animal Number:	7252	7254	7255	7256	7257	7258	7259
Sex:	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS
THYROID:							
-hypertrophy and hyperplasia, follicular epithelium	1	-	-	-	-	-	-
-ultimobranchial body/cyst	-	-	-	-	P	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-7

Histomorphologic Observations
F1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	7262	7263	7264	7265	7266	7267	7268	7269	7270	7271
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	2	-	-	-	-	1	1	3
-ultimobranchial body/cyst	-	-	-	P	-	-	P	P	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-7 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	3	3	3	3	3	3	3	3	3	3
Animal Number:	7272	7273	7274	7275	7276	7277	7278	7279	7280	7281
Sex:	F	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
EAR(S):										
-chondritis, auricular							<3>			
SKIN (GROSS LESION):										
-dermatitis, chronic, focal				<1>						
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	2	2	-	-	1	-	2	2	1
-ultimobranchial body/cyst	P	P	P	P	-	P	-	P	P	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-7 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	3	3	3	3	3	3	3	3
Animal Number:	7282	7283	7284	7285	7286	7287	7288	7289
Sex:	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	-	-	*	1	2	-	-	1
-ultimobranchial body/cyst	-	P	*	-	-	P	-	P

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-8

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4
Animal Number:	7291	7292	7294	7296	7297	7298	7299	7300	7301
Sex:	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS
ABDOMINAL CAVITY:	<->								
ADRENAL GLANDS:									
-vacuolation, cortical, focal	1	-	-	1	-	-	-	-	-
AORTA:	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-	-	-
COLON:									
-parasite(s), lumen	-	-	-	-	-	-	P	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-
EAR(S):									
-chondritis, auricular				<4>	<3>				
ESOPHAGUS:	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-
HEART:	-	-	-	-	-	-	-	-	-
ILEUM:	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-
KIDNEYS:									
-cyst(s), cortex	-	P	-	-	-	-	-	-	-
-infiltration, mononuclear-cell, focal/multifocal	1	-	-	-	-	-	-	-	-
-mineralization, multifocal	-	-	-	-	-	-	1	-	-
-mineralization, pelvis	-	-	-	-	-	1	-	-	-
LIVER:									
-inflammation, chronic, focal/multifocal	1	-	-	-	-	-	-	-	-
LUNG:									
-infiltration, eosinophilic, perivascular and peribronchial	-	-	-	-	1	-	-	-	-
-inflammation, interstitial, acute, focal	-	-	-	-	-	-	1	-	-
-macrophages, alveoli, focal	1	1	1	-	-	1	1	-	1
LYMPH NODE, MANDIBULAR:									
-hyperplasia, lymphocytic/plasmacytic	1	2	1	2	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-8 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4
Animal Number:	7291	7292	7294	7296	7297	7298	7299	7300	7301
Sex:	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS
LYMPH NODE, MESENTERIC:									
-histiocytosis	-	-	-	-	1	1	-	-	-
MAMMARY GLAND:									
-cystic gland/duct	-	-	-	-	*	-	-	P	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):									
-hyperplasia/hyperkeratosis, epidermis	3	-	2	-	*	2	-	-	2
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-
SPLEEN:									
-hemosiderosis	-	-	-	-	-	-	-	-	1
STOMACH:									
-dilatation, mucosal glands	-	1	1	-	-	1	-	-	-
THYMUS:	-	-	-	-	-	-	-	-	-
THYROID:									
-hypertrophy and hyperplasia, follicular epithelium	3	4	3	3	2	3	4	1	4
-ultimobranchial body/cyst	-	P	P	-	-	-	-	-	-
TRACHEA:									
-tracheitis, chronic, focal	-	-	1	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-
UTERUS:									
-distention, lumen	-	-	-	-	-	-	-	2	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-8 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4
Animal Number:	7291	7292	7294	7296	7297	7298	7299	7300	7301
Sex:	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS
UTERUS (Continued):									
-macrophages, pigmented	2	1	3	2	1	-	2	2	-
VAGINA:	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-8 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4
Animal Number:	7302	7303	7304	7306	7308	7309	7310	7311	7312
Sex:	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:									
-hypertrophy, zona glomerulosa	-	-	-	-	2	-	-	-	-
-vacuolation, cortical, focal	1	1	1	-	-	-	1	1	-
AORTA:	-	-	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-	-	-
COLON:	-	-	-	-	-	-	-	-	-
DUODENUM:	-	-	-	-	-	-	-	-	-
EAR(S):									
-chondritis, auricular							<4>		
ESOPHAGUS:	-	-	-	-	-	-	-	-	-
EYES:	-	-	-	-	-	-	-	-	-
HEART:									
-fibrosis, myocardial, focal	-	-	-	-	-	-	1	-	-
ILEUM:	-	-	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-	-	-
KIDNEYS:									
-mineralization, pelvis	-	-	-	-	-	-	-	1	-
LIVER:	-	-	-	-	-	-	-	-	-
LUNG:									
-inflammation, interstitial, acute, focal	-	-	-	-	-	-	-	-	1
-inflammation, interstitial, chronic, focal	-	1	-	-	-	-	-	-	-
-macrophages, alveoli, focal	-	2	-	-	-	-	-	1	-
LYMPH NODE, MANDIBULAR:									
-hyperplasia, lymphocytic/plasmacytic	1	2	-	2	-	-	3	2	1
LYMPH NODE, MESENTERIC:									
-histiocytosis	-	-	-	2	-	1	-	-	-
-hyperplasia, lymphoid	-	-	-	2	-	-	-	-	-
MAMMARY GLAND:	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-8 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4	4	4
Animal Number:	7302	7303	7304	7306	7308	7309	7310	7311	7312
Sex:	F	F	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS	SS	SS
MUSCLE, SKELETAL:	-	-	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-	-	-
OVARIES:	-	-	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):									
-hyperplasia/hyperkeratosis, epidermis	2	-	-	-	2	-	-	-	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-	-	-
SPLEEN:									
-hemosiderosis	1	-	-	-	-	-	-	-	-
STOMACH:									
-dilatation, mucosal glands	1	-	-	-	-	1	-	-	1
THYMUS:									
-atrophy	2	-	-	-	-	-	1	-	-
-cyst(s)	-	-	-	-	-	P	-	-	-
THYROID:									
-hypertrophy and hyperplasia, follicular epithelium	4	3	3	3	4	4	4	3	3
-ultimobranchial body/cyst	P	P	-	P	-	-	-	-	-
TRACHEA:	-	-	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-	-	-
UTERUS:									
-distention, lumen	-	-	-	-	1	3	-	-	-
-macrophages, pigmented	3	1	2	2	-	3	3	2	3
VAGINA:	-	-	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-8 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4
Animal Number:	7313	7314	7315	7316	7317	7318	7320
Sex:	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS
ADRENAL GLANDS:							
-vacuolation, cortical, focal	-	-	-	-	1	2	-
AORTA:	-	-	-	-	-	-	-
BONE (FEMUR):	-	-	-	-	-	-	-
BONE MARROW (FEMUR):	-	-	-	-	-	-	-
BRAIN:	-	-	-	-	-	-	-
CECUM:	-	-	-	-	-	-	-
CERVIX:	-	-	-	-	-	-	-
COLON:							
-parasite(s), lumen	-	-	-	-	-	-	P
DUODENUM:	-	-	-	-	-	-	-
ESOPHAGUS:							
-dilatation	-	-	-	-	-	<P>	-
EYES:	-	-	-	-	-	-	-
HEART:							
-inflammation, chronic, multifocal	-	-	-	-	-	-	1
ILEUM:	-	-	-	-	-	-	-
JEJUNUM:	-	-	-	-	-	-	-
KIDNEYS:	-	-	-	-	-	-	-
LIVER:							
-inflammation, chronic, focal/multifocal	-	-	-	-	1	-	1
LUNG:							
-inflammation, interstitial, acute, focal	-	-	-	1	-	-	-
-macrophages, alveoli, focal	-	-	-	-	-	1	-
LYMPH NODE, MANDIBULAR:							
-hyperplasia, lymphocytic/plasmacytic	-	-	1	1	1	3	1
LYMPH NODE, MESENTERIC:							
-histiocytosis	-	-	-	-	2	2	2
MAMMARY GLAND:	-	-	-	-	-	-	-
MUSCLE, SKELETAL:	-	-	-	-	-	-	-
NERVE, SCIATIC:	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

TABLE II-8 (Continued)

Histomorphologic Observations
F1 Generation

Dose Group:	4	4	4	4	4	4	4
Animal Number:	7313	7314	7315	7316	7317	7318	7320
Sex:	F	F	F	F	F	F	F
Death Type:	SS	SS	SS	SS	SS	SS	SS
OVARIES:	-	-	-	-	-	-	-
PANCREAS:	-	-	-	-	-	-	-
PARATHYROID:	-	-	-	-	-	-	-
PITUITARY:	-	-	-	-	-	-	-
RECTUM:	-	-	-	-	-	-	-
SALIVARY GLAND:	-	-	-	-	-	-	-
SKIN (ROUTINE SECTION):							
-hyperplasia/hyperkeratosis, epidermis	-	-	1	-	-	1	-
SPINAL CORD, CERVICAL:	-	-	-	-	-	-	-
SPINAL CORD, LUMBAR:	-	-	-	-	-	-	-
SPINAL CORD, THORACIC:	-	-	-	-	-	-	-
SPLEEN:	-	-	-	-	-	-	-
STOMACH:							
-dilatation, mucosal glands	-	-	1	-	-	-	-
THYMUS:							
-congestion	-	-	-	-	1	-	-
-cyst(s)	-	-	P	-	-	-	-
THYROID:							
-hypertrophy and hyperplasia, follicular epithelium	4	2	4	-	3	4	4
-ultimobranchial body/cyst	-	-	P	P	P	-	-
TRACHEA:	-	-	-	-	-	-	-
URINARY BLADDER:	-	-	-	-	-	-	-
UTERUS:							
-macrophages, pigmented	3	2	3	3	3	3	3
VAGINA:	-	-	-	-	-	-	-
ZYMBAL'S GLAND:	-	-	-	-	-	-	-

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

APPENDIX III

HISTOMORPHOLOGIC OBSERVATIONS

F1 GENERATION WEANLINGS

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

KEY TO HISTOMORPHOLOGIC OBSERVATIONS

-	=	No change (not remarkable, within normal histologic limits or indicated change not present).
*	=	Tissue not available (specified tissue missing, insufficient tissue in plane of section, artifact precludes evaluation, or specified tissue not present in section).
< >	=	Microscopic finding(s) in tissue(s) with gross observation(s).
<->	=	Within normal limits [no microscopic change(s) to correlate with the gross observation(s)].
P	=	Indicated change or lesion present
1	=	Minimal degree or amount of indicated change or lesion.
2	=	Mild degree or amount of indicated change or lesion.
3	=	Moderate degree or amount of indicated change or lesion.
4	=	Marked degree or amount of indicated change or lesion.

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-1
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810
Pup Number:	2	3	4	1	1	2	4	3	2	4
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-ultimobranchial body/cyst	-	-	-	-	P	-	-	-	-	-

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	3811	3812	3813	3814	3815	3816	3818	3819	3821	3822
Pup Number:	1	1	4	1	3	2	3	2	3	2
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-ultimobranchial body/cyst	-	-	P	-	-	-	-	-	-	-

Dose Group:	1	1	1	1	1	1	1	1
Dam Number:	3823	3824	3825	3826	3827	3828	3829	3830
Pup Number:	2	4	1	1	2	1	3	1
Sex:	M	M	M	M	M	M	M	M
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	-	2	-	-	1	1	-	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-2
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	3831	3833	3834	3837	3838	3842	3843	3845	3846	3847
Pup Number:	2	2	1	1	2	2	8	3	2	4
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-ultimobranchial body/cyst	-	-	-	P	-	-	-	-	-	-

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	3848	3849	3850	3851	3852	3854	3855	3856	3857	3858
Pup Number:	3	2	2	1	2	4	1	1	1	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	1	-	-	-	-	1	1
-ultimobranchial body/cyst	-	-	-	-	-	-	-	P	P	-

Dose Group:	2	2
Dam Number:	3859	3860
Pup Number:	1	2
Sex:	M	M
THYROID:		
-hypertrophy and hyperplasia, follicular epithelium	2	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-3
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	3861	3862	3863	3864	3865	3866	3867	3868	3869	3872
Pup Number:	1	1	5	3	1	1	1	2	1	2
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	2	2	-	3	-	-	2	2	2

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	3873	3875	3876	3877	3878	3879	3880	3882	3883	3884
Pup Number:	3	1	1	2	3	1	3	1	2	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	2	1	-	-	2	-	2	-	-
-ultimobranchial body/cyst	-	-	-	-	P	-	-	-	-	-

Dose Group:						3	3	3	3	3
Dam Number:						3885	3887	3888	3889	3890
Pup Number:						4	1	2	1	1
Sex:						M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium						1	-	-	1	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-4
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	3891	3893	3894	3895	3897	3899	3900	3901	3902	3904
Pup Number:	2	1	1	2	5	2	1	1	4	3
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	2	3	3	3	3	3	3	2	2

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	3905	3906	3907	3910	3911	3912	3913	3915	3916	3917
Pup Number:	3	1	6	1	1	1	4	2	1	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	1	3	4	1	2	3	2	4	3
-ultimobranchial body/cyst	-	-	-	P	-	-	-	-	-	-

Dose Group:	4	4	4
Dam Number:	3918	3919	3920
Pup Number:	3	2	6
Sex:	M	M	M
THYROID:			
-hypertrophy and hyperplasia, follicular epithelium	3	2	1
-ultimobranchial body/cyst	-	-	P

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-5
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810
Pup Number:	11	4	12	9	11	12	8	6	10	9
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	2	-	-	-	-	-	-	-

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	3811	3812	3813	3814	3815	3816	3818	3819	3821	3822
Pup Number:	11	13	9	7	12	8	15	9	12	9
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	1	-	-	-	-	-

Dose Group:	1	1	1	1	1	1	1	1
Dam Number:	3823	3824	3825	3826	3827	3828	3829	3830
Pup Number:	8	10	8	11	9	10	7	9
Sex:	F	F	F	F	F	F	F	F
THYROID:								
-hypertrophy and hyperplasia, follicular epithelium	-	2	-	-	-	-	-	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-6
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	3831	3833	3834	3837	3838	3842	3843	3845	3846	3847
Pup Number:	8	9	10	8	11	9	17	13	10	5
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-ultimobranchial body/cyst	-	-	-	2	-	2	-	-	-	-

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	3848	3849	3850	3851	3852	3854	3855	3856	3857	3858
Pup Number:	12	9	11	8	9	11	11	8	12	8
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	-	1	-	-	1	1
-ultimobranchial body/cyst	-	-	-	-	P	P	-	P	-	-

Dose Group:	2	2
Dam Number:	3859	3860
Pup Number:	9	9
Sex:	F	F
THYROID:	-	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-7
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	3861	3862	3863	3864	3865	3866	3867	3868	3869	3872
Pup Number:	8	11	11	12	10	8	10	8	13	10
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	2	1	-	1	1	-	-	2	1
-ultimobranchial body/cyst	-	-	-	-	-	P	-	-	-	-

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	3873	3875	3876	3877	3879	3880	3882	3883	3884	3885
Pup Number:	9	10	8	8	13	14	6	9	7	12
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	-	2	1	-	1	1	-	-	1
-ultimobranchial body/cyst	P	-	-	-	-	-	-	-	-	-

Dose Group:	3	3	3	3
Dam Number:	3887	3888	3889	3890
Pup Number:	6	8	12	5
Sex:	F	F	F	F
THYROID:				
-hypertrophy and hyperplasia, follicular epithelium	2	3	1	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table III-8
Histomorphologic Observations in the Thyroid Gland
F1 Weanlings

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	3891	3892	3893	3894	3895	3897	3899	3900	3901	3902
Pup Number:	9	2	5	8	9	12	10	7	10	9
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	3	3	3	3	4	4	4	4	4

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	3904	3906	3907	3910	3911	3912	3913	3915	3916	3917
Pup Number:	12	7	8	8	9	11	9	9	7	7
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	4	3	3	3	3	3	2	3	3
-ultimobranchial body/cyst	-	P	-	-	-	-	-	-	-	-

Dose Group:	4	4	4
Dam Number:	3918	3919	3920
Pup Number:	12	9	10
Sex:	F	F	F
THYROID:			
-hypertrophy and hyperplasia, follicular epithelium	4	3	2

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

APPENDIX IV

HISTOMORPHOLOGIC OBSERVATIONS

F2 GENERATION WEANLINGS

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

KEY TO HISTOMORPHOLOGIC OBSERVATIONS

-	=	No change (not remarkable, within normal histologic limits or indicated change not present).
*	=	Tissue not available (specified tissue missing, insufficient tissue in plane of section, artifact precludes evaluation, or specified tissue not present in section).
< >	=	Microscopic finding(s) in tissue(s) with gross observation(s).
<->	=	Within normal limits [no microscopic change(s) to correlate with the gross observation(s)].
P	=	Indicated change or lesion present
1	=	Minimal degree or amount of indicated change or lesion.
2	=	Mild degree or amount of indicated change or lesion.
3	=	Moderate degree or amount of indicated change or lesion.
4	=	Marked degree or amount of indicated change or lesion.

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-1
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	7202	7204	7205	7208	7210	7211	7213	7214	7215	7216
Pup Number:	1	1	1	2	2	1	1	1	4	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	1	-	-	-	-	-	-	-
-ultimobranchial body/cyst	P	-	-	-	-	-	P	-	-	-

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	7217	7218	7219	7223	7224	7225	7226	7227	7228	7229
Pup Number:	1	1	2	1	2	1	1	2	5	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-ultimobranchial body/cyst	-	-	P	-	-	-	-	-	-	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-2
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	7231	7232	7233	7234	7235	7236	7237	7238	7239	7240
Pup Number:	2	1	2	1	2	2	1	1	2	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	2	2	-	-	-	-	-	-	-
-ultimobranchial body/cyst	-	-	-	-	-	-	-	-	-	P

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	7241	7242	7244	7245	7246	7247	7248	7249	7250	7251
Pup Number:	2	2	2	1	1	1	1	1	1	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-ultimobranchial body/cyst	-	-	-	-	P	-	-	-	P	-

Dose Group:				2	2	2	2	2	2	2
Dam Number:				7252	7254	7255	7256	7257	7258	7259
Pup Number:				1	1	1	2	3	2	1
Sex:				M	M	M	M	M	M	M
THYROID:										
-ultimobranchial body/cyst				-	-	-	-	-	P	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-3
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	7262	7263	7264	7265	7266	7267	7268	7269	7270	7271
Pup Number:	4	3	2	1	2	2	2	4	2	3
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	-	1	-	-	-	1	1	1	2

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	7272	7273	7274	7275	7276	7277	7278	7279	7280	7281
Pup Number:	1	4	1	1	1	1	1	1	1	3
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	1	2	1	2	-	1	-	-	-

Dose Group:			3	3	3	3	3	3	3	3
Dam Number:			7282	7283	7284	7285	7286	7287	7288	7289
Pup Number:			1	4	1	3	7	2	2	1
Sex:			M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium			-	-	-	1	2	1	1	2

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-4
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	7291	7292	7294	7296	7297	7298	7299	7300	7301	7302
Pup Number:	1	1	1	1	2	1	2	3	3	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	4	4	3	4	4	4	3	4	3

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	7303	7304	7306	7308	7309	7310	7311	7312	7313	7314
Pup Number:	4	1	1	1	1	5	1	2	1	1
Sex:	M	M	M	M	M	M	M	M	M	M
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	3	3	3	-	3	3	-	2	-
-ultimobranchial body/cyst	-	-	P	-	-	-	-	-	-	-

Dose Group:	4	4	4	4	4
Dam Number:	7315	7316	7317	7318	7320
Pup Number:	1	1	1	1	2
Sex:	M	M	M	M	M
THYROID:					
-hypertrophy and hyperplasia, follicular epithelium	3	1	3	3	3

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-5
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	7202	7204	7205	7208	7210	7211	7213	7214	7215	7216
Pup Number:	10	10	6	7	13	12	11	9	11	12
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	-	-	1	-	-	-
-ultimobranchial body/cyst	-	P	-	-	-	-	-	-	-	-

Dose Group:	1	1	1	1	1	1	1	1	1	1
Dam Number:	7217	7218	7219	7223	7224	7225	7226	7227	7228	7229
Pup Number:	10	12	8	2	9	6	6	12	12	8
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:	-	-	-	-	-	-	-	-	-	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-6
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	7231	7232	7233	7234	7235	7236	7237	7238	7239	7240
Pup Number:	6	8	9	5	7	5	8	11	13	8
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	-	1	-	-	-	-	-	-	-	-

Dose Group:	2	2	2	2	2	2	2	2	2	2
Dam Number:	7241	7242	7244	7245	7246	7247	7248	7249	7250	7251
Pup Number:	8	10	8	14	9	6	10	5	7	11
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	1	-	-	-	-	-	-	-	-	-

Dose Group:	2	2	2	2	2	2	2
Dam Number:	7252	7254	7255	7256	7257	7258	7259
Pup Number:	12	13	4	7	9	11	11
Sex:	F	F	F	F	F	F	F
THYROID:							
-hypertrophy and hyperplasia, follicular epithelium	-	-	-	-	-	1	-
-ultimobranchial body/cyst	-	-	-	-	-	-	P

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-7
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	7262	7263	7264	7265	7266	7267	7268	7269	7270	7271
Pup Number:	11	11	11	8	6	8	7	13	6	15
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	2	2	-	-	1	2	-	1	3

Dose Group:	3	3	3	3	3	3	3	3	3	3
Dam Number:	7272	7273	7274	7275	7276	7277	7278	7279	7280	7281
Pup Number:	12	12	8	10	9	8	12	10	4	13
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	2	-	-	2	2	2	2	1	-	1

Dose Group:			3	3	3	3	3	3	3	3
Dam Number:			7282	7283	7284	7285	7286	7287	7288	7289
Pup Number:			6	15	3	10	14	9	9	5
Sex:			F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium			-	-	-	2	2	1	1	-

Oral (Drinking Water) Two-Generation (One Litter per Generation)
Reproduction Study of Ammonium Perchlorate in Rats
Protocol 1416-001

Table IV-8
Histomorphologic Observations in the Thyroid Gland
F2 Weanlings

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	7291	7292	7294	7296	7297	7298	7299	7300	7301	7302
Pup Number:	8	10	12	7	7	11	9	14	7	11
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	3	4	4	3	3	3	3	4	3	3

Dose Group:	4	4	4	4	4	4	4	4	4	4
Dam Number:	7303	7304	7306	7308	7309	7310	7311	7312	7313	7314
Pup Number:	11	12	10	8	6	11	7	13	3	3
Sex:	F	F	F	F	F	F	F	F	F	F
THYROID:										
-hypertrophy and hyperplasia, follicular epithelium	4	3	3	4	3	3	3	2	1	3

Dose Group:	4	4	4	4	4
Dam Number:	7315	7316	7317	7318	7320
Pup Number:	10	7	10	5	12
Sex:	F	F	F	F	F
THYROID:					
-hypertrophy and hyperplasia, follicular epithelium	2	1	3	2	3

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

APPENDIX V

INDIVIDUAL ANIMAL GROSS AND HISTOMORPHOLOGY DATA

P1 Generation

KEY TO CORRELATION OF HISTOMORPHOLOGIC OBSERVATIONS

Not applicable = Microscopic evaluation/correlation not appropriate or not required by protocol.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3601 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, suppurative (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

URINARY BLADDER

End of Record- 3601

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3602 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
THYROID	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3602

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3603 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PROSTATE:	prostatitis, interstitial, chronic (minimal)
STOMACH:	infiltration, polymorphonuclear, submucosa (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3603

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3604 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
	infiltration, mononuclear-cell, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3604

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3605 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	hyperplasia, lymphoid (mild)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	atrophy, acinar, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
PROSTATE:	prostatitis, suppurative (mild)
THYROID:	ultimobranchial body/cyst
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 3605

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3606 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
	fibrosis, myocardial, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
	degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
PANCREAS:	hemorrhage (minimal)
	inflammation, chronic, focal/multifocal (minimal)
	fibrosis, islet, focal (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	THYROID	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3606

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3607 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
CECUM:	hyperplasia, lymphoid (mild)
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
STOMACH:	dilatation, mucosal glands (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
COLON	DUODENUM	ESOPHAGUS	EYES
HEART	ILEUM	JEJUNUM	LIVER
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3607

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3608 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	hemosiderosis (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
	degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
PITUITARY:	cyst(s), pars distalis
	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3608

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3609 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
STOMACH:	dilatation, mucosal glands (minimal)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
TESTIS	THYMUS	THYROID	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 3609

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3610 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PANCREAS:	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
PROSTATE:	prostatitis, interstitial, chronic (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 3610

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3611 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
	hemosiderosis (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PANCREAS:	hypertrophy, acinar-cell, focal (minimal)
	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES	ILEUM	JEJUNUM	KIDNEYS
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3611

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3612 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PANCREAS:	microgranuloma(s)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	THYROID	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3612

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3613 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	hyperplasia, lymphoid (mild)
PANCREAS:	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYMUS:	congestion (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH
TESTIS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 3613

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3614 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	cyst(s), medulla
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PANCREAS:	hemorrhage (mild)
	inflammation, chronic; focal/multifocal (moderate)
	atrophy, acinar, focal (moderate)
	fibrosis, islet, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES	HEART	ILEUM	JEJUNUM
LIVER	LUNG	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3614

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3615 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
ZYMBAL'S GLAND:	cyst(s)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	THYROID	TRACHEA	URINARY BLADDER

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3615

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3616 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (mild)
SPLEEN:	hematopoiesis, extramedullary (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	STOMACH	TESTIS	THYMUS
THYROID	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3616

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3617 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
HEART:	fibrosis, myocardial, focal (minimal)
	hemosiderosis (minimal)
LIVER:	cellular alteration, clear-cell, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPLEEN:	hematopoiesis, extramedullary (minimal)
STOMACH:	dilatation, mucosal glands (moderate)
THYROID:	adenoma, follicular, benign
ZYMBAL'S GLAND:	cyst(s)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
TESTIS	THYMUS	TRACHEA	URINARY BLADDER

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

NEOPLASMS:

THYROID	adenoma, follicular, benign

End of Record- 3617

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3618 | DOSE GROUP: 1
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPH NODE, MESENTERIC:	congestion/erythrophagocytosis (minimal)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	THYROID	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3618

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3619 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
SKIN: Mass, neck, 2.0 x 1.0 x 2.0cm.	fibroma, SKIN (GROSS LESION)

HISTOMORPHOLOGIC OBSERVATIONS:

SKIN (GROSS LESION):	fibroma, benign
SPLEEN:	hematopoiesis, extramedullary (minimal)
STOMACH:	dilatation, mucosal glands (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

NEOPLASMS:

SKIN (GROSS LESION)	fibroma, benign

End of Record- 3619

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3620 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	degeneration/basophilia, cortical tubules, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	follicle(s), cystic

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3620

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3621 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
MUSCLE, SKELETAL:	inflammation, chronic, focal (mild)
PARATHYROID:	ectopic thymic tissue
PROSTATE:	prostatitis, interstitial, chronic (mild)
SPLEEN:	hematopoiesis, extramedullary (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	NERVE, SCIATIC	PANCREAS	PITUITARY
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3621

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3622 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	inflammation, chronic, multifocal (minimal)
	fibrosis, myocardial, focal (minimal)
PANCREAS:	fibrosis, islet, focal (moderate)
THYMUS:	congestion (mild)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
PITUITARY	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3622

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3623 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	hematopoiesis, extramedullary (minimal)
	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LUNG	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3623

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3624 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
LIVER:	vacuolation, hepatocellular, periportal (minimal)
LUNG:	inflammation, interstitial, focal (minimal)
PANCREAS:	hemorrhage (minimal)
	atrophy, acinar, focal (minimal)
	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hematopoiesis, extramedullary (mild)
THYROID:	follicle(s), cystic
URINARY BLADDER:	infiltration, mononuclear-cell, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BRAIN	CECUM
COLON	DUODENUM	EPIDIDYMIDES	ESOPHAGUS
EYES	ILEUM	JEJUNUM	KIDNEYS
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

BONE (FEMUR)
BONE MARROW (FEMUR)

End of Record- 3624

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3625 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	glomerulonephritis, chronic (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (mild)
	hypertrophy, acinar-cell, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
SPLEEN:	hematopoiesis, extramedullary (mild)
THYMUS:	congestion (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH
TESTIS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

DUODENUM
MAMMARY GLAND

End of Record- 3625

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3626 DOSE GROUP: 1
SEX: M DEATH TYPE: Spontaneous Death

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR: hyperplasia, lymphocytic/plasmacytic (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
KIDNEYS	LIVER	LUNG	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	PROSTATE	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
RECTUM

AUTOLYSIS PRECLUDES EVALUATION:

ILEUM	JEJUNUM	THYROID

End of Record- 3626

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3627 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (mild)
	infiltration, mononuclear-cell, focal/multifocal (minimal)
	degeneration/basophilia, cortical tubules, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	hemorrhage (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPLEEN:	hematopoiesis, extramedullary (mild)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
TESTIS	THYMUS	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3627

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3628 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	fibrosis, myocardial, focal (minimal)
KIDNEYS:	cyst(s), medulla
LIVER:	necrosis, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
PANCREAS:	fibrosis, islet, focal (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
STOMACH:	dilatation, mucosal glands (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3628

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3629 | DOSE GROUP: 1
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	hyaline droplets, cortical tubules (mild) degeneration/basophilia, cortical tubules, focal (minimal)
LUNG:	hypertrophy, arterial (moderate)
PANCREAS:	fibrosis, islet, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
STOMACH:	dilatation, mucosal glands (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3629

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3630 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 3630

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3631 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3631

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3632 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3632

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3633 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3633

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3634 | DOSE GROUP: 2
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3634

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3635 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3635

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3636 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3636

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3637 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EYES: Exophthalmos, left eye.	atrophy, retinal, focal

HISTOMORPHOLOGIC OBSERVATIONS:

EYES: atrophy, retinal, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3637

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3638 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3638

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3639 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EPIDIDYMIDES: Tan mass, 0.5 x 0.5 x 0.5cm, on cauda epididymis, left.	necrotic germ cells
TESTES: Right- small.	atrophy, multifocal, TESTIS

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	necrotic germ cells
TESTIS:	atrophy, multifocal (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3639

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3640 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3640

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3641 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3641

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3642 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3642

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3643	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3643

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3644 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3644

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3645	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3645

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3646
SEX: M

DOSE GROUP: 2
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3646

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3647 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3647

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3648 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3648

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3649 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3649

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3650	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst

End of Record- 3650

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3651	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3651

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3652 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3652

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3653 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3653

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3654 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3654

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3655 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3655

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3656 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3656

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3657	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3657

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3658
SEX: M

DOSE GROUP: 2
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3658

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3659 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst
hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3659

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3660 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3660

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3661 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3661

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3662 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3662

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3663	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3663

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3664 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3664

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3665 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3665

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3666 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst
hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3666

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3667 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3667

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3668 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3668

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3669 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3669

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3670 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3670

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3671 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EPIDIDYMIDES: Small.	infiltration, mononuclear-cell, focal
	hypospermia
TESTES: Small.	atrophy, diffuse, TESTIS

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
	hypospermia (marked)
TESTIS:	atrophy, diffuse (marked)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3671

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3672 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3672

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3673	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3673

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3674 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3674

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3675 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3675

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3676 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3676

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3677 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EYES: Lenticular opacity, right eye.	keratitis, chronic mineralization, cornea, focal

HISTOMORPHOLOGIC OBSERVATIONS:

EYES:	keratitis, chronic (mild) mineralization, cornea, focal (minimal)
THYROID:	ultimobranchial body/cyst

End of Record- 3677

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3678 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3678

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3679 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3679

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3680	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3680

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3681	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3681

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3682 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3682

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3683 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3683

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3684 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3684

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3685	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3685

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3686 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3686

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3687 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3687

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3688 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 3688

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3689	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3689

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3690 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3690

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3691 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PITUITARY	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3691

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3692 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
BONE (FEMUR):	fibrosis, epiphysis, focal (minimal)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
SPLEEN:	hemosiderosis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE MARROW (FEMUR)	BRAIN	CECUM
COLON	DUODENUM	EPIDIDYMIDES	ESOPHAGUS
EYES	ILEUM	JEJUNUM	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	URINARY BLADDER	ZYMBAL'S GLAND	

COMMENTS:

BONE (FEMUR)	The tibia on the femur section has evidence of minimal focal fibrosis.

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3692

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3693 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3693

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3694 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	cellular alteration, clear-cell, focal (minimal)
PANCREAS:	atrophy, acinar, focal (minimal)
	fibrosis, islet, focal (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3694

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3695 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	dilatation, pelvis (mild)
	infiltration, mononuclear-cell, focal/multifocal (minimal)
	degeneration/basophilia, cortical tubules, focal (minimal)
PANCREAS:	fibrosis, islet, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
SPLEEN:	hematopoiesis, extramedullary (minimal)
	hemosiderosis (mild)
STOMACH:	infiltration, mixed inflammatory cell, submucosa (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	TESTIS
THYMUS	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
URINARY BLADDER

End of Record- 3695

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3696 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (mild)
LIVER:	hematopoiesis, extramedullary (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
RECTUM:	parasite(s), lumen
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

URINARY BLADDER

End of Record- 3696

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3697 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
STOMACH	TESTIS	THYMUS	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3697

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3698 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Moribund

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
HEAD: Swollen snout.	fracture, PALATE abscess, PALATE

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	fibrosis, myocardial, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PALATE:	fracture
	abscess
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PROSTATE	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

JEJUNUM
RECTUM

End of Record- 3698

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3699 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	fibrosis, myocardial, focal (minimal)
PANCREAS:	atrophy, acinar, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3699

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3700 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
LUNG:	inflammation, interstitial, focal (minimal)
	alveolitis, acute, focal/multifocal (minimal)
MUSCLE, SKELETAL:	inflammation, chronic, focal (minimal)
PANCREAS:	fibrosis, islet, focal (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 3700

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3701 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	fibrosis, myocardial, focal (mild)
LUNG:	proliferation, lymphoid, peribronchial/perivascular (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
STOMACH:	dilatation, mucosal glands (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3701

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3702 DOSE GROUP: 4
ON TEST:
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
HEART:	hemosiderosis (minimal)
	inflammation, chronic, multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hematopoiesis, extramedullary (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3702

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3703 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (mild)
	infiltration, mononuclear-cell, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LIVER	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3703

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3704 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
LUNG:	hypertrophy, arterial (mild)
	macrophages, alveoli, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYMUS:	congestion (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 3704

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3705 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	hypertrophy, cortical, focal (minimal)
	vacuolation, cortical, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
	inflammation, chronic, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PANCREAS:	atrophy, acinar, focal (minimal)
	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPINAL CORD, LUMBAR:	cyst(s), epidermal
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	JEJUNUM	KIDNEYS
LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

ILEUM
MAMMARY GLAND
PARATHYROID

End of Record- 3705

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3706 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	glomerulonephritis, chronic (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
PANCREAS:	atrophy, acinar, focal (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LUNG	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3706

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3707 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYMUS:	congestion (minimal)
THYROID:	inflammation, chronic, focal (minimal)
	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3707

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3708 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	glomerulonephritis, chronic (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	fibrosis, islet, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	cystic tracheal glands

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 3708

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3709 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3709

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3710 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
EYES:	atrophy, retinal, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	HEART	ILEUM	JEJUNUM
KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3710

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3711 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
LIVER:	hematopoiesis, extramedullary (minimal)
	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 3711

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3712 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

BONE MARROW (FEMUR):	lymphoma, malignant
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
EYES:	atrophy, retinal, focal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (moderate)
	degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPHORETICULAR SYSTEM:	lymphoma, malignant, malignant
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	lymphoma, malignant
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
HEART	ILEUM	JEJUNUM	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	URINARY BLADDER	ZYMBAL'S GLAND	

NEOPLASMS:

LYMPHORETICULAR SYSTEM	lymphoma, malignant, malignant

End of Record- 3712

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3713 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
PANCREAS:	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

ILEUM

End of Record- 3713

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3714 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	glomerulonephritis, chronic (minimal) hyaline droplets, cortical tubules (minimal)
PANCREAS:	fibrosis, islet, focal (mild) inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hematopoiesis, extramedullary (mild)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 3714

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3715 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	hemosiderosis (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hyperplasia, C-cell, focal (minimal)
	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3715

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3716 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
ZYMBAL'S GLAND:	cyst(s)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LIVER	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
TESTIS	THYMUS	TRACHEA	URINARY BLADDER

End of Record- 3716

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3717 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LUNG	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
PARATHYROID

End of Record- 3717

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3718 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (mild)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
	degeneration/basophilia, cortical tubules, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
ZYMBAL'S GLAND:	cyst(s)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LIVER	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER			

End of Record- 3718

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3719 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (moderate) atrophy, acinar, focal (moderate) fibrosis, islet, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 3719

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3720 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPLEEN:	hematopoiesis, extramedullary (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 3720

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3801 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
STOMACH:	dilatation, mucosal glands (minimal)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	THYMUS	THYROID
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3801

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3802 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

UTERUS: Right horn- constricted.

HISTOMORPHOLOGIC OBSERVATION(S):

No microscopic change to correlate

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
UTERUS:	No microscopic change to correlate

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	THYROID	TRACHEA	URINARY BLADDER
UTERUS	VAGINA	ZYMBAL'S GLAND	

End of Record- 3802

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3803 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
MAMMARY GLAND:	inflammation, subacute (minimal)
THYMUS:	atrophy (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 3803

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3804 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	parasite(s), lumen
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	THYROID	TRACHEA	URINARY BLADDER
UTERUS	VAGINA	ZYMBAL'S GLAND	

End of Record- 3804

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3805 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen, purple, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (moderate)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
THYMUS:	cyst(s)
THYROID:	ultimobranchial body/cyst
TRACHEA:	tracheitis, chronic, focal (minimal)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 3805

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3806 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (minimal)
	distention, lumen (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 3806

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3807 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
SKIN (ROUTINE SECTION):	dermatitis, chronic (minimal)
	hyperplasia/hyperkeratosis, epidermis (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	THYROID	TRACHEA	URINARY BLADDER
UTERUS	VAGINA	ZYMBAL'S GLAND	

End of Record- 3807

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3808 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

UTERUS: macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	THYROID
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 3808

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3809 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
UTERUS:	*macrophages, pigmented (moderate)*

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	THYROID	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 3809

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3810 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	inflammation, chronic, mucosa (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
THYROID:	follicle(s), cystic
UTERUS:	distention, lumen (minimal)
	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3810

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3811 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	proliferation, lymphoid, peribronchial/perivascular (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (moderate)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
THYROID	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3811

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3812 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	THYROID	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 3812

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3813 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYMUS:	cyst(s)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (minimal)
UTERUS:	macrophages, pigmented (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3813

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3814 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
RECTUM:	parasite(s), lumen

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PITUITARY	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	THYROID
TRACHEA	URINARY BLADDER	UTERUS	VAGINA
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3814

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3815 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
RECTUM:	parasite(s), lumen
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	THYROID	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 3815

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3816 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	hyperplasia, lymphoid (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
THYROID	TRACHEA	URINARY BLADDER	UTERUS
VAGINA	ZYMBAL'S GLAND		

End of Record- 3816

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3818 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
CECUM:	parasite(s), lumen
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
RECTUM:	parasite(s), lumen
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
	dermatitis, chronic (mild)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CERVIX	COLON	DUODENUM	ESOPHAGUS
EYES	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	SALIVARY GLAND
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	THYROID	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 3818

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3819 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Purple, swollen, right.

HISTOMORPHOLOGIC OBSERVATION(S):

No microscopic change to correlate

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
EAR(S):	No microscopic change to correlate
LUNG:	inflammation, interstitial, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
SKIN (ROUTINE SECTION):	dermatitis, chronic (mild)
	hyperplasia/hyperkeratosis, epidermis (moderate)
STOMACH:	dilatation, mucosal glands (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
EAR(S)	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	THYMUS	THYROID
TRACHEA	URINARY BLADDER	UTERUS	VAGINA
ZYMBAL'S GLAND			

End of Record- 3819

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3821 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	edema, submucosa (mild)
LYMPH NODE, MANDIBULAR:	lymphadenopathy, cystic (mild)
	hyperplasia, lymphocytic/plasmacytic (moderate)
TRACHEA:	tracheitis, chronic, focal (minimal)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	THYROID	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3821

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3822 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
SPLEEN:	cyst(s)
UTERUS:	macrophages, pigmented (mild)
	distention, lumen (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	THYMUS
THYROID	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3822

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3823 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	mineralization, pelvis (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
THYROID	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3823

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3824 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen, purple, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	hypertrophy, cortical, focal (minimal)
	vacuolation, cortical, focal (minimal)
EAR(S):	chondritis, auricular (moderate)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPH NODE, MESENTERIC:	edema (moderate)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (moderate)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PITUITARY	RECTUM	SALIVARY GLAND
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	THYROID	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3824

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3825 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
KIDNEYS:	mineralization, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (mild)
STOMACH:	cystic gland(s), glandular mucosa
THYMUS:	cyst(s)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	THYROID	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 3825

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3826 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
THYMUS:	cyst(s)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 3826

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3827 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	mineralization, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (moderate)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
THYROID	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3827

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3828 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

EAR(S): Swollen, purple, right.

HISTOMORPHOLOGIC OBSERVATION(S):

dermatitis, chronic

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
EAR(S):	dermatitis, chronic (mild)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
MAMMARY GLAND:	cystic gland/duct
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	HEART	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
UTERUS	VAGINA	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

ILEUM

End of Record- 3828

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3829 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	inflammation, chronic, focal (minimal)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 3829

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3830 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
UTERUS:	macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	THYROID	TRACHEA
VAGINA	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

URINARY BLADDER

End of Record- 3830

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3831 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3831

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3833	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3833

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3834	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3834

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3837 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3837

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3838 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3838

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3842	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen and purple, bilateral.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (marked)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3842

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3843 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3843

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3845
SEX: F

DOSE GROUP: 2
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3845

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3846 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3846

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3847 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3847

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3848 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

THYROID

End of Record- 3848

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3849 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3849

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3850 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3850

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3851 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Purple, swollen, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (marked)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
	ultimobranchial body/cyst

End of Record- 3851

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3852 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
MAMMARY GLAND: Two subcutaneous masses, right flank (1.0 x 1.0 x 0.5cm) and right inguinal (2.0 x 2.0 x 2.5cm), tan and firm, cut surfaces appear tan, smooth.	adenocarcinoma adenocarcinoma

HISTOMORPHOLOGIC OBSERVATIONS:

MAMMARY GLAND: adenocarcinoma, malignant (2)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

NEOPLASMS:

MAMMARY GLAND adenocarcinoma, malignant
MAMMARY GLAND adenocarcinoma, malignant

End of Record- 3852

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3854 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3854

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3855 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3855

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3856 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3856

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3857 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)
ultimobranchial body/cyst

End of Record- 3857

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3858	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3858

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3859 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3859

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3860 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3860

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3861 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3861

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3862 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3862

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3863 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)
ultimobranchial body/cyst

End of Record- 3863

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3864	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3864

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3865 | DOSE GROUP: 3
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	follicle(s), cystic hypertrophy and hyperplasia, follicular epithelium (moderate) ultimobranchial body/cyst

End of Record- 3865

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3866 | DOSE GROUP: 3
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3866

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3867	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3867

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3868 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3868

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3869 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3869

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3872 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild) ultimobranchial body/cyst

End of Record- 3872

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3873 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)
ultimobranchial body/cyst

End of Record- 3873

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3875 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3875

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3876 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3876

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3877	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen, purple, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (marked)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3877

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3878 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3878

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3879 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Purple, swollen, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3879

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3880 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 3880

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3881 DOSE GROUP: 3
SEX: F DEATH TYPE: Spontaneous Death

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 3881

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3882 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3882

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3883 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3883

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3884	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal) ultimobranchial body/cyst

End of Record- 3884

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3885 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)
	ultimobranchial body/cyst

End of Record- 3885

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3887 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 3887

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3888 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3888

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3889 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 3889

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3890 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen, purple, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (marked)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 3890

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3891 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
CECUM:	parasite(s), lumen
COLON:	parasite(s), lumen
KIDNEYS:	dilatation, cortical tubules (minimal)
	vacuolation, cortical tubules (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CERVIX	DUODENUM	ESOPHAGUS	EYES
HEART	ILEUM	JEJUNUM	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 3891

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3892 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYMUS:	congestion (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TRACHEA	URINARY BLADDER
UTERUS	VAGINA	ZYMBAL'S GLAND	

End of Record- 3892

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3893 DOSE GROUP: 4
PATH. NUMBER:
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	UTERUS
VAGINA	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

SPINAL CORD, CERVICAL

End of Record- 3893

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3894 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	UTERUS
VAGINA	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

SPINAL CORD, CERVICAL

End of Record- 3894

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3895 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	necrosis, focal (minimal)
	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

COLON
PITUITARY

End of Record- 3895

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3897 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
RECTUM:	parasite(s), lumen
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3897

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3899 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 3899

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3900 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	UTERUS	VAGINA
ZYMBAL'S GLAND			

End of Record- 3900

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3901 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	mineralization, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 3901

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3902 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
SKIN (ROUTINE SECTION):	dermatitis, chronic (moderate)
	necrosis, epidermis, focal (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	UTERUS
VAGINA	ZYMBAL'S GLAND		

End of Record- 3902

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3904 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
THYMUS:	congestion (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
TRACHEA:	tracheitis, chronic, focal (minimal)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3904

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3905 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)
UTERUS:	macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3905

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3906 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 3906

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3907
SEX: F

DOSE GROUP: 4
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LUNG:	infiltration, eosinophilic, perivascular and peribronchial (minimal)
	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TRACHEA
URINARY BLADDER	UTERUS	VAGINA	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

THYMUS

End of Record- 3907

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3910 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	hypertrophy, cortical, focal (minimal)
KIDNEYS:	mineralization, multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 3910

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3911 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	UTERUS
VAGINA	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

CERVIX

End of Record- 3911

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3912 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

BONE (FEMUR):	cyst(s), epiphysis
KIDNEYS:	mineralization, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 3912

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3913 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LIVER:	cellular alteration, clear-cell, focal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 3913

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3915 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

COMMENTS:

URINARY BLADDER	There were two urinary bladders present in the wet tissue container for this animal. Both were processed/evaluated and were within normal limits.

End of Record- 3915

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3916 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	mineralization, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
SKIN (ROUTINE SECTION):	dermatitis, chronic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
UTERUS	VAGINA	ZYMBAL'S GLAND	

COMMENTS:

CERVIX	Present on the section of rectum. Apparently the cervix was removed with the rectum at the time of dissection.

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

SPINAL CORD, CERVICAL

End of Record- 3916

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3917 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	mineralization, multifocal (minimal) fibrosis, focal (minimal)
LUNG:	infiltration, eosinophilic, perivascular and peribronchial (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	histiocytosis (moderate)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 3917

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3918 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 3918

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3919 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LIVER:	necrosis, focal (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (moderate)
THYMUS:	cyst(s)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 3919

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix V
Individual Animal Gross and Histomorphology Data
P1 Generation

ANIMAL NUMBER: 3920 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	mineralization, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
MAMMARY GLAND:	cystic gland/duct
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (moderate)
THYMUS:	atrophy (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 3920

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

APPENDIX VI

INDIVIDUAL ANIMAL GROSS AND HISTOMORPHOLOGY DATA

F1 Generation

KEY TO CORRELATION OF HISTOMORPHOLOGIC OBSERVATIONS

Not applicable = Microscopic evaluation/correlation not appropriate or not required by protocol.

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 5450 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 5450

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7001 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7001

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7002 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (moderate)
LUNG:	macrophages, alveoli, focal (minimal)
SPLEEN:	hemosiderosis (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 7002

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7003 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
STOMACH:	dilatation, mucosal glands (mild)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7003

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7004 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EPIDIDYMIDES: Right and left- small and flaccid.	hypospermia
TESTES: Right and left- small and flaccid.	atrophy, diffuse, TESTIS

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	hypospermia (marked)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
TESTIS:	atrophy, diffuse (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
THYROID	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 7004

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7005 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
KIDNEYS: Right- pelvis, slight dilation.	dilatation, pelvis

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	hypertrophy, cortical, focal (minimal)
KIDNEYS:	dilatation, pelvis (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
SKIN (ROUTINE SECTION):	hyperplasia, epidermis (minimal)
SPLEEN:	hemosiderosis (mild)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
SPINAL CORD, CERVICAL

End of Record- 7005

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7006 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
	hemosiderosis (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
SPLEEN:	hematopoiesis, extramedullary (minimal)
	hemosiderosis (minimal)
THYMUS:	congestion (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH
TESTIS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7006

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7007 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	glomerulonephritis, chronic (mild)
LUNG:	proliferation, lymphoid, peribronchial/perivascular (minimal)
	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PANCREAS:	atrophy, acinar, focal (mild)
	fibrosis, islet, focal (minimal)
SPLEEN:	hemosiderosis (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
STOMACH	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7007

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7008 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	ultimobranchial body/cyst
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PITUITARY	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7008

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7009 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	dilatation, tubules, papilla (minimal)
	mineralization, multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	proliferation, lymphoid, peribronchial/perivascular (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	hemorrhage (minimal)
	inflammation, subacute, focal (minimal)
	fibrosis, islet, focal (minimal)
THYMUS:	congestion (mild)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYROID	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7009

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7010 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	hemorrhage (minimal)
	fibrosis, islet, focal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYMUS:	congestion (minimal)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	TESTIS	THYROID
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7010

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7011 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7011

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7012 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	inflammation, chronic, mucosa (mild)
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
LUNG:	macrophages, alveoli, focal (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	hemorrhage (mild)
	inflammation, subacute, focal (minimal)
THYMUS:	congestion (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	COLON	DUODENUM	ESOPHAGUS
EYES	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7012

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7013 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (moderate)
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PANCREAS:	fibrosis, islet, focal (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES	HEART	ILEUM	JEJUNUM
KIDNEYS	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7013

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7015 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	fibrosis, myocardial, focal (minimal) hemosiderosis (minimal)
KIDNEYS:	glomerulonephritis, chronic (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
PROSTATE:	prostatitis, interstitial, chronic (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7015

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7016 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
	hemosiderosis (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hemosiderosis (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LIVER	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
STOMACH	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7016

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7017 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	cyst(s), medulla
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hemosiderosis (mild)
THYMUS:	congestion (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH
TESTIS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7017

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7018 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
STOMACH:	dilatation, mucosal glands (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	TESTIS	THYMUS
THYROID	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 7018

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7019 | DOSE GROUP: 1
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
	inflammation, chronic, multifocal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (minimal)
LUNG:	proliferation, lymphoid, peribronchial/perivascular (minimal)
PANCREAS:	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
SPLEEN:	hemosiderosis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 7019

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7020 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PANCREAS:	fibrosis, islet, focal (mild)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
PITUITARY	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7020

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7021 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
ZYMBAL'S GLAND:	cyst(s)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7021

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7022 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

STOMACH: dilatation, mucosal glands (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	TESTIS	THYMUS
THYROID	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 7022

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7023 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	fibrosis, myocardial, focal (minimal)
	inflammation, chronic, focal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
STOMACH:	cyst(s), squamous

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	THYROID
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7023

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7024 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (mild)
	dilatation, pelvis (mild)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
	atrophy, acinar, focal (minimal)
	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

COMMENTS:

PROSTATE	Present on slide #8.
THYMUS	Present on Slide #9A.

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7024

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7025 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	hyaline droplets, cortical tubules (mild) cyst(s), cortex degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
PROSTATE:	prostatitis, interstitial, chronic (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 7025

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7026 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PROSTATE:	prostatitis, interstitial, chronic (mild)
THYMUS:	congestion (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYROID	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 7026

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7027 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
MUSCLE, SKELETAL:	inflammation, chronic, focal (minimal)
PANCREAS:	fibrosis, islet, focal (mild)
PITUITARY:	cyst(s), pars distalis
	hypertrophy/vacuolation, pars distalis (minimal)
PROSTATE:	prostatitis, interstitial, chronic (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	NERVE, SCIATIC	PARATHYROID
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	THYROID	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
SKIN (ROUTINE SECTION)

End of Record- 7027

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7028 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
BONE (FEMUR):	cyst(s), epiphysis
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (mild)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
SPLEEN:	hemosiderosis (moderate)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE MARROW (FEMUR)	BRAIN	CECUM
COLON	DUODENUM	ESOPHAGUS	EYES
HEART	ILEUM	JEJUNUM	LUNG
LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7028

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7029 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	hypertrophy, cortical, focal (minimal)
EYES:	mineralization, cornea, focal (minimal)
HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PANCREAS:	inflammation, subacute, focal (minimal) fibrosis, islet, focal (mild)
THYROID:	ultimobranchial body/cyst hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	ILEUM	JEJUNUM	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 7029

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7030 DOSE GROUP: 1
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (mild)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7030

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7031 DOSE GROUP: 2
ON TEST:
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7031

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7032 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7032

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7033	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7033

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7034 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7034

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7035 | DOSE GROUP: 2
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7035

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7036 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen and purple, both.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7036

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7037 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7037

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7038 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7038

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7039	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst

End of Record- 7039

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7040 | DOSE GROUP: 2
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7040

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7041	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7041

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7042 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7042

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7043 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7043

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7044 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7044

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7045 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7045

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7046	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7046

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7047 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7047

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7048 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7048

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7049 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7049

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7050 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7050

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7051 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7051

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7052 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7052

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7053 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7053

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7054 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7054

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7055	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst

End of Record- 7055

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7056 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7056

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7057 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7057

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7058 DOSE GROUP: 2
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7058

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7109 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (moderate)
KIDNEYS:	hyaline droplets, cortical tubules (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7109

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7110 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EYES:	mineralization, cornea, focal (minimal)
HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (moderate)
SPLEEN:	hemosiderosis (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	ILEUM	JEJUNUM
LIVER	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 7110

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7059	DOSE GROUP: 2
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst

End of Record- 7059

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7060 | DOSE GROUP: 2
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7060

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7061	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst

End of Record- 7061

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7062 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7062

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7063 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7063

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7064 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
	ultimobranchial body/cyst

End of Record- 7064

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7065 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 7065

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7066 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7066

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7067	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7067

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7068 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7068

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7069	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 7069

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7070 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EPIDIDYMIDES: Bilateral- small and flaccid.	hypospermia
GENERAL: No gross changes.	Not applicable
PROSTATE: Mass, 0.7 x 1.6cm, center of mass dark.	prostatitis, suppurative
SKIN: Rump area, left side of back, scab, 0.1cm in diameter.	dermatitis, chronic, focal, SKIN (GROSS LESION)
TESTES: Bilateral- small and flaccid.	atrophy, diffuse, TESTIS

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	hypospermia (marked)
PROSTATE:	prostatitis, suppurative (marked)
SKIN (GROSS LESION):	dermatitis, chronic, focal (moderate)
TESTIS:	atrophy, diffuse (marked)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7070

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7071 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7071

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7072 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 7072

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7073 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7073

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7074 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7074

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7075 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7075

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7076	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7076

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7077 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 7077

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7078	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 7078

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7079 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7079

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7080 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 7080

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7081	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	ultimobranchial body/cyst

End of Record- 7081

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7082 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: *No gross changes.*

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (marked)

End of Record- 7082

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7083 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)
	ultimobranchial body/cyst

End of Record- 7083

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7084	DOSE GROUP: 3
SEX: M	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7084

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7085 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (moderate)

End of Record- 7085

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7086 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 7086

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7087 | DOSE GROUP: 3
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7087

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7088 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7088

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7089 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7089

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7090 DOSE GROUP: 3
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7090

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7091 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	cyst(s), cortex infiltration, mononuclear-cell, focal/multifocal (minimal)
THYMUS:	congestion (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

SPINAL CORD, LUMBAR

End of Record- 7091

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7092 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
PANCREAS:	hemorrhage (minimal)
	inflammation, acute, focal (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7092

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7093 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EYES: Lenticular opacity, right eye.	mineralization, cornea, focal atrophy, retinal, diffuse

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
EYES:	mineralization, cornea, focal (minimal) atrophy, retinal, diffuse (marked)
LUNG:	proliferation, lymphoid, peribronchial/perivascular (minimal) macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal) atrophy, acinar, focal (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7093

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7094 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	fibrosis, myocardial, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
SPLEEN:	hemosiderosis (mild)
STOMACH:	dilatation, mucosal glands (mild)
THYROID:	adenoma, follicular, benign
	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	TESTIS
THYMUS	URINARY BLADDER	ZYMBAL'S GLAND	

NEOPLASMS:

THYROID	adenoma, follicular, benign

End of Record- 7094

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7095 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
URINARY BLADDER:	infiltration, mononuclear-cell, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
TESTIS	THYMUS	TRACHEA	ZYMBAL'S GLAND

COMMENTS:

EYES	One eye was received damaged, but it is considered to be within normal limits.

End of Record- 7095

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7096 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
LIVER:	hematopoiesis, extramedullary (minimal)
LUNG:	inflammation, interstitial, acute, focal (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (mild)
	atrophy, acinar, focal (mild)
	fibrosis, islet, focal (mild)
STOMACH:	dilatation, mucosal glands (mild)
THYMUS:	congestion (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	TRACHEA	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
URINARY BLADDER

End of Record- 7096

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7097 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
KIDNEYS:	dilatation, cortical tubules (minimal)
	infiltration, mononuclear-cell, focal/multifocal (minimal)
	degeneration/basophilia, cortical tubules, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PANCREAS:	hypertrophy, acinar-cell, focal (minimal)
THYMUS:	congestion (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID
PITUITARY	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7097

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7098 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
EYES:	mineralization, cornea, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PITUITARY:	hyperplasia, pars distalis, focal (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
SPLEEN:	hemosiderosis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	HEART	ILEUM	JEJUNUM
KIDNEYS	LUNG	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7098

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7099 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	hyaline droplets, cortical tubules (mild)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 7099

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7100 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EXTREMITIES: Digit bent, right front paw, fourth.	No microscopic change to correlate

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	hyperplasia, lymphoid (minimal)
EXTREMITIES:	No microscopic change to correlate
KIDNEYS:	dilatation, cortical tubules (minimal)
	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EXTREMITIES	EYES	HEART
ILEUM	JEJUNUM	LUNG	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7100

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7101 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
URINARY BLADDER:	infiltration, mononuclear-cell, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LUNG	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	TRACHEA	ZYMBAL'S GLAND

End of Record- 7101

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7102 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	inflammation, chronic, multifocal (minimal)
THYROID:	ultimobranchial body/cyst
ZYMBAL'S GLAND:	cyst(s)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	THYMUS
TRACHEA	URINARY BLADDER		

COMMENTS:

HEART	There is inflammation present on the heart valve as well as in the myocardium.

End of Record- 7102

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7103 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	dilatation, pelvis (mild)
	hyaline droplets, cortical tubules (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7103

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7104 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
LYMPH NODE, MESENTERIC:	histiocytosis (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
PROSTATE:	prostatitis, interstitial, chronic (moderate)
SPLEEN:	hemosiderosis (mild)
THYMUS:	congestion (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	ILEUM
JEJUNUM	KIDNEYS	LUNG	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7104

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7105 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND

End of Record- 7105

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7106 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (mild)
KIDNEYS:	glomerulonephritis, chronic (minimal)
	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (marked)
PANCREAS:	hemorrhage (minimal)
	inflammation, chronic, focal/multifocal (minimal)
SPLEEN:	hemosiderosis (mild)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 7106

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7107 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (mild)
	inflammation, chronic, multifocal (mild)
KIDNEYS:	dilatation, pelvis (mild)
	degeneration/basophilia, cortical tubules, focal (minimal)
	hyaline droplets, cortical tubules (mild)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
PANCREAS:	fibrosis, islet, focal (minimal)
THYMUS:	congestion (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PITUITARY
PROSTATE	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TESTIS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7107

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7108 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	dilatation, pelvis (mild)
	glomerulonephritis, chronic (mild)
	dilatation, medullary tubules (minimal)
	cast(s), granular
	hyaline droplets, cortical tubules (moderate)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 7108

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7109
SEX: M

DOSE GROUP: 4
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (moderate)
KIDNEYS:	hyaline droplets, cortical tubules (moderate)
PITUITARY:	hypertrophy/vacuolation, pars distalis (moderate)
PROSTATE:	prostatitis, interstitial, chronic (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	RECTUM	SALIVARY GLAND	SEMINAL VESICLES
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7109

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7110 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EYES:	mineralization, cornea, focal (minimal)
HEART:	inflammation, chronic, multifocal (minimal)
KIDNEYS:	hyaline droplets, cortical tubules (moderate)
SPLEEN:	hemosiderosis (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	ILEUM	JEJUNUM
LIVER	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

End of Record- 7110

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7111 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Spontaneous Death

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYMUS: congestion (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	HEART	KIDNEYS
LIVER	LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS
PARATHYROID	PITUITARY	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	TESTIS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

ILEUM

AUTOLYSIS PRECLUDES EVALUATION:

CECUM	JEJUNUM	SPLEEN	STOMACH
THYROID			

End of Record- 7111

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7112 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
EPIDIDYMIDES:	infiltration, mononuclear-cell, focal (minimal)
HEART:	hemosiderosis (minimal)
KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (mild)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES	ILEUM	JEJUNUM	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
TESTIS	THYMUS	TRACHEA	URINARY BLADDER
ZYMBAL'S GLAND			

End of Record- 7112

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7113 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Spontaneous Death

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	hyaline droplets, cortical tubules (moderate)
LIVER:	inflammation, chronic, focal/multifocal (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
PANCREAS:	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
TRACHEA:	tracheitis, chronic, focal (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LUNG	MUSCLE, SKELETAL
NERVE, SCIATIC	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TESTIS
THYMUS	URINARY BLADDER	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
PARATHYROID

End of Record- 7113

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7114 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
HEART:	hemosiderosis (minimal)
	fibrosis, myocardial, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYMUS:	congestion (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MANDIBULAR
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	TESTIS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7114

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7115 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Spontaneous Death

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

SPLEEN:	hematopoiesis, extramedullary (minimal)
THYMUS:	congestion (minimal)
THYROID:	ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PANCREAS	PARATHYROID
PITUITARY	PROSTATE	RECTUM	SALIVARY GLAND
SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	STOMACH	TESTIS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7115

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7116 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	hyperplasia, lymphoid (minimal)
HEART:	inflammation, chronic, multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
PANCREAS:	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPLEEN:	hematopoiesis, extramedullary (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
THYMUS	TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND

COMMENTS:

MAMMARY GLAND	Present on the salivary gland section.

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

SKIN (ROUTINE SECTION)

End of Record- 7116

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7117 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	dilatation, pelvis (mild)
LUNG:	proliferation, lymphoid, peribronchial/perivascular (minimal)
	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PANCREAS:	inflammation, chronic, focal/multifocal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hyperplasia, follicular, focal/nodular (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

COMMENTS:

THYROID	Within one thyroid lobe, there is a discrete focus of hyperplastic thyroid tissue, but this is considered to be hyperplasia and not neoplasia.

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7117

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7118 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	cyst(s), cortex
	infiltration, mononuclear-cell, focal/multifocal (minimal)
	degeneration/basophilia, cortical tubules, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7118

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7119 | DOSE GROUP: 4
SEX: M | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	degeneration/basophilia, cortical tubules, focal (minimal)
PANCREAS:	fibrosis, islet, focal (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (mild)
SPLEEN:	hemosiderosis (minimal)
THYMUS:	congestion (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PARATHYROID	PROSTATE	RECTUM
SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	TESTIS
TRACHEA	URINARY BLADDER	ZYMBAL'S GLAND	

End of Record- 7119

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7120 DOSE GROUP: 4
SEX: M DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
KIDNEYS: Right- slight dilation of the pelvis.	dilatation, pelvis

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (moderate)
HEART:	hemosiderosis (mild)
	fibrosis, myocardial, focal (mild)
KIDNEYS:	dilatation, pelvis (mild)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
PITUITARY:	hypertrophy/vacuolation, pars distalis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	COLON	DUODENUM	EPIDIDYMIDES
ESOPHAGUS	EYES	ILEUM	JEJUNUM
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	PANCREAS	PARATHYROID	PROSTATE
RECTUM	SALIVARY GLAND	SEMINAL VESICLES	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TESTIS	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

End of Record- 7120

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7202 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPH NODE, MESENTERIC:	hyperplasia, lymphoid (mild)
OVARIES:	cyst(s)
SPLEEN:	hemosiderosis (minimal)
THYMUS:	atrophy (mild)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	STOMACH	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7202

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7204 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
RECTUM:	parasite(s), lumen
SPLEEN:	hemosiderosis (mild)
TRACHEA:	tracheitis, chronic, focal (minimal)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	STOMACH	THYMUS	THYROID
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

COMMENTS:

EYES	The lens is missing in one eye, but all other ocular structures are within normal limits.
GENERAL	There were several duplicate tissues present in the wet tissue container for this rat (lung, heart, thymus, trachea, and esophagus). Both sets of tissues were processed and evaluated.

End of Record- 7204

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7205 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	cyst(s), medulla
	dilatation, pelvis (mild)
LUNG:	macrophages, alveoli, focal (minimal)
RECTUM:	parasite(s), lumen
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (minimal)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	TRACHEA
URINARY BLADDER	ZYMBAL'S GLAND		

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

CERVIX
VAGINA

End of Record- 7205

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7208 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

PARATHYROID

End of Record- 7208

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7210 | DOSE GROUP: 1
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EYES: Corneal opacity, right eye; exophthalmos, right eye.	keratitis, chronic, focal atrophy, retinal, diffuse

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
EYES:	keratitis, chronic, focal (mild) atrophy, retinal, diffuse (moderate)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
STOMACH:	dilatation, mucosal glands (mild)
THYMUS:	cyst(s)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal) ultimobranchial body/cyst

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	HEART	ILEUM	JEJUNUM
KIDNEYS	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	TRACHEA	URINARY BLADDER	UTERUS
VAGINA	ZYMBAL'S GLAND		

End of Record- 7210

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7211 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	inflammation, interstitial, acute, focal (minimal)
	macrophages, alveoli, focal (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
THYMUS:	atrophy (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LYMPH NODE, MANDIBULAR
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7211

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7213 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
	congestion (minimal)
RECTUM:	parasite(s), lumen
SPLEEN:	hemosiderosis (mild)
THYROID:	ultimobranchial body/cyst
UTERUS:	deciduoma

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7213

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7214 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
COLON:	parasite(s), lumen
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (minimal)
THYMUS:	atrophy (mild)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (mild)
	distention, lumen (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	DUODENUM	ESOPHAGUS
EYES	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7214

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7215 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
RECTUM:	parasite(s), lumen
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

COMMENTS:

VAGINA	Vaginal tissue is present on the cervix section and on the section of rectum.

End of Record- 7215

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7216 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
SKIN (ROUTINE SECTION):	dermatitis, chronic, focal (minimal)
	hyperplasia/hyperkeratosis, epidermis (minimal)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7216

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7217 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
SKIN (ROUTINE SECTION):	necrosis, focal (moderate)
	dermatitis, chronic, focal (moderate)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (minimal)
UTERUS:	macrophages, pigmented (moderate)
	distention, lumen (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
EYES	HEART	ILEUM	JEJUNUM
KIDNEYS	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

COMMENTS:

AORTA	Present on the heart section.

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

ESOPHAGUS
LUNG
THYMUS
TRACHEA

End of Record- 7217

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7218 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen and purple, both.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (marked)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	congestion (minimal)
STOMACH:	dilatation, mucosal glands (mild)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7218

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7219 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
THYMUS:	cyst(s)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)
	ultimobranchial body/cyst
UTERUS:	distention, lumen (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7219

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7223 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	infiltration, eosinophilic, perivascular and peribronchial (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
LYMPH NODE, MESENTERIC:	hyperplasia, lymphoid (mild)
SPLEEN:	hemosiderosis (mild)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	STOMACH	THYMUS	THYROID
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7223

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7224 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	infiltration, eosinophilic, perivascular and peribronchial (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	THYROID
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7224

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7225 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

UTERUS: macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	THYROID
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7225

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7226 DOSE GROUP: 1
ON TEST:
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LIVER:	hematopoiesis, extramedullary (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	histiocytosis (minimal)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES (1)	HEART
ILEUM	JEJUNUM	KIDNEYS	LUNG
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
THYROID	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

COMMENTS:

EYES	The eyes were received damaged and only one of the sections that could be obtained was adequate for evaluation.

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

EYES (1)

End of Record- 7226

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7227 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (mild)
LYMPH NODE, MESENTERIC:	histiocytosis (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (minimal)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7227

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7228 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

CECUM:	parasite(s), lumen
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPH NODE, MESENTERIC:	hyperplasia, lymphoid (minimal)
SKIN (ROUTINE SECTION):	dermatitis, chronic, focal (mild)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7228

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7229 DOSE GROUP: 1
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Both- swollen and purple.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (marked)
LUNG:	macrophages, alveoli, focal (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7229

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7231 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7231

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7232 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)
ultimobranchial body/cyst

End of Record- 7232

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7233 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 7233

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7234 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)
	ultimobranchial body/cyst

End of Record- 7234

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7235 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7235

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7236 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7236

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7237 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7237

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7238 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7238

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7239 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7239

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7240 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7240

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7241	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7241

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7242 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7242

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7244	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild) ultimobranchial body/cyst

End of Record- 7244

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7245 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal) ultimobranchial body/cyst

End of Record- 7245

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7246 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7246

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7247 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7247

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7248	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7248

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7249 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7249

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7250	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7250

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7251 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7251

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7252	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 7252

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7254 | DOSE GROUP: 2
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7254

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7255 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7255

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7256	DOSE GROUP: 2
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7256

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7257 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7257

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7258 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7258

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7259 DOSE GROUP: 2
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7259

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7262 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7262

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7263 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7263

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7264 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7264

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7265	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7265

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7266	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7266

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7267 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7267

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7268	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7268

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7269	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal) ultimobranchial body/cyst

End of Record- 7269

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7270 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 7270

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7271 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
	ultimobranchial body/cyst

End of Record- 7271

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7272 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7272

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7273 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)
ultimobranchial body/cyst

End of Record- 7273

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7274 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)
ultimobranchial body/cyst

End of Record- 7274

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7275 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
TAIL: Tip of tail missing.	dermatitis, chronic, focal, SKIN (GROSS LESION)

HISTOMORPHOLOGIC OBSERVATIONS:

SKIN (GROSS LESION):	dermatitis, chronic, focal (minimal)
THYROID:	ultimobranchial body/cyst

End of Record- 7275

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7276 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7276

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7277 | DOSE GROUP: 3
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)
	ultimobranchial body/cyst

End of Record- 7277

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7278 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen and purple, both.	chondritis, auricular
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S): chondritis, auricular (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7278

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7279 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild) ultimobranchial body/cyst

End of Record- 7279

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7280 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)
ultimobranchial body/cyst

End of Record- 7280

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7281	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal) ultimobranchial body/cyst

End of Record- 7281

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7282
SEX: F

DOSE GROUP: 3
DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7282

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7283	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7283

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7284 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

THYROID

End of Record- 7284

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7285	DOSE GROUP: 3
SEX: F	DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)

End of Record- 7285

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7286 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (mild)

End of Record- 7286

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7287 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: ultimobranchial body/cyst

End of Record- 7287

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7288 | DOSE GROUP: 3
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

THYROID

End of Record- 7288

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7289 DOSE GROUP: 3
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID: hypertrophy and hyperplasia, follicular epithelium (minimal)
ultimobranchial body/cyst

End of Record- 7289

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7291 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

ABDOMINAL CAVITY: Umbilical hernia.

HISTOMORPHOLOGIC OBSERVATION(S):

No microscopic change to correlate

HISTOMORPHOLOGIC OBSERVATIONS:

ABDOMINAL CAVITY:	No microscopic change to correlate
ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
KIDNEYS:	infiltration, mononuclear-cell, focal/multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (moderate)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ABDOMINAL CAVITY	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

COMMENTS:

PARATHYROID	Present on the trachea section.

End of Record- 7291

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7292 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	cyst(s), cortex
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7292

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7294 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (moderate)
TRACHEA:	tracheitis, chronic, focal (minimal)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	THYMUS	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7294

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7296 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen and purple, bilateral.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
EAR(S):	chondritis, auricular (marked)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7296

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7297 | DOSE GROUP: 4
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen and purple, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

EAR(S):	chondritis, auricular (moderate)
LUNG:	infiltration, eosinophilic, perivascular and peribronchial (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)
UTERUS:	macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

TISSUE(S) NOT AVAILABLE FOR EVALUATION:

MAMMARY GLAND
SKIN (ROUTINE SECTION)

End of Record- 7297

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7298 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

KIDNEYS:	mineralization, pelvis (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	THYMUS	TRACHEA	URINARY BLADDER
UTERUS	VAGINA	ZYMBAL'S GLAND	

End of Record- 7298

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7299 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
KIDNEYS:	mineralization, multifocal (minimal)
LUNG:	inflammation, interstitial, acute, focal (minimal)
	macrophages, alveoli, focal (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7299

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7300 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

MAMMARY GLAND:	cystic gland/duct
THYROID:	hypertrophy and hyperplasia, follicular epithelium (minimal)
UTERUS:	macrophages, pigmented (mild)
	distention, lumen (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7300

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7301 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	macrophages, alveoli, focal (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
SPLEEN:	hemosiderosis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	UTERUS	VAGINA
ZYMBAL'S GLAND			

End of Record- 7301

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7302 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
SPLEEN:	hemosiderosis (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYMUS:	atrophy (mild)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7302

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7303 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LUNG:	inflammation, interstitial, chronic, focal (minimal) , macrophages, alveoli, focal (mild)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7303

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7304 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7304

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7306 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
LYMPH NODE, MESENTERIC:	hyperplasia, lymphoid (mild)
	histiocytosis (mild)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7306

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7308 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	hypertrophy, zona glomerulosa (mild)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	distention, lumen (minimal)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LIVER	LUNG
LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7308

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7309 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MESENTERIC:	histiocytosis (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYMUS:	cyst(s)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)
	distention, lumen (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7309

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7310 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
EAR(S): Swollen and purple, right.	chondritis, auricular

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
EAR(S):	chondritis, auricular (marked)
HEART:	fibrosis, myocardial, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
THYMUS:	atrophy (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LIVER	LUNG	LYMPH NODE, MESENTERIC
MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES
PANCREAS	PARATHYROID	PITUITARY	RECTUM
SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR
SPINAL CORD, THORACIC	SPLEEN	STOMACH	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7310

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7311 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
KIDNEYS:	mineralization, pelvis (minimal)
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	LIVER	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7311

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7312 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	inflammation, interstitial, acute, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	THYMUS
TRACHEA	URINARY BLADDER	VAGINA	ZYMBAL'S GLAND

End of Record- 7312

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7313 | DOSE GROUP: 4
ON TEST:
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S): | HISTOMORPHOLOGIC OBSERVATION(S):

GENERAL: No gross changes. | Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7313

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7314 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

THYROID:	hypertrophy and hyperplasia, follicular epithelium (mild)
UTERUS:	macrophages, pigmented (mild)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MANDIBULAR	LYMPH NODE, MESENTERIC	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7314

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7315 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (minimal)
STOMACH:	dilatation, mucosal glands (minimal)
THYMUS:	cyst(s)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LUNG	LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	TRACHEA
URINARY BLADDER	VAGINA	ZYMBAL'S GLAND	

End of Record- 7315

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7316 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

LUNG:	inflammation, interstitial, acute, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
THYROID:	ultimobranchial body/cyst
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	COLON
DUODENUM	ESOPHAGUS	EYES	HEART
ILEUM	JEJUNUM	KIDNEYS	LIVER
LYMPH NODE, MESENTERIC	MAMMARY GLAND	MUSCLE, SKELETAL	NERVE, SCIATIC
OVARIES	PANCREAS	PARATHYROID	PITUITARY
RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

End of Record- 7316

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7317 | DOSE GROUP: 4
SEX: F | DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
THYMUS:	congestion (minimal)
THYROID:	ultimobranchial body/cyst
	hypertrophy and hyperplasia, follicular epithelium (moderate)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
ESOPHAGUS	EYES	HEART	ILEUM
JEJUNUM	KIDNEYS	LUNG	MAMMARY GLAND
MUSCLE, SKELETAL	NERVE, SCIATIC	OVARIES	PANCREAS
PARATHYROID	PITUITARY	RECTUM	SALIVARY GLAND
SKIN (ROUTINE SECTION)	SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC
SPLEEN	STOMACH	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7317

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7318 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):	HISTOMORPHOLOGIC OBSERVATION(S):
ESOPHAGUS: 0.3cm nodule (trimming observation).	dilatation
GENERAL: No gross changes.	Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

ADRENAL GLANDS:	vacuolation, cortical, focal (mild)
ESOPHAGUS:	dilatation
LUNG:	macrophages, alveoli, focal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (moderate)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
SKIN (ROUTINE SECTION):	hyperplasia/hyperkeratosis, epidermis (minimal)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)	BRAIN
CECUM	CERVIX	COLON	DUODENUM
EYES	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SPINAL CORD, CERVICAL
SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN	STOMACH
THYMUS	TRACHEA	URINARY BLADDER	VAGINA
ZYMBAL'S GLAND			

COMMENTS:

VAGINA	Present on the section with cervix.

End of Record- 7318

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION)
REPRODUCTION STUDY OF AMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001

Appendix VI
Individual Animal Gross and Histomorphology Data
F1 Generation

ANIMAL NUMBER: 7320 DOSE GROUP: 4
SEX: F DEATH TYPE: Sacrifice-Scheduled

GROSS OBSERVATION(S):

GENERAL: No gross changes.

HISTOMORPHOLOGIC OBSERVATION(S):

Not applicable

HISTOMORPHOLOGIC OBSERVATIONS:

COLON:	parasite(s), lumen
HEART:	inflammation, chronic, multifocal (minimal)
LIVER:	inflammation, chronic, focal/multifocal (minimal)
LYMPH NODE, MANDIBULAR:	hyperplasia, lymphocytic/plasmacytic (minimal)
LYMPH NODE, MESENTERIC:	histiocytosis (mild)
THYROID:	hypertrophy and hyperplasia, follicular epithelium (marked)
UTERUS:	macrophages, pigmented (moderate)

THE FOLLOWING TISSUE(S) WERE WITHIN NORMAL LIMITS:

ADRENAL GLANDS	AORTA	BONE (FEMUR)	BONE MARROW (FEMUR)
BRAIN	CECUM	CERVIX	DUODENUM
ESOPHAGUS	EYES	ILEUM	JEJUNUM
KIDNEYS	LUNG	MAMMARY GLAND	MUSCLE, SKELETAL
NERVE, SCIATIC	OVARIES	PANCREAS	PARATHYROID
PITUITARY	RECTUM	SALIVARY GLAND	SKIN (ROUTINE SECTION)
SPINAL CORD, CERVICAL	SPINAL CORD, LUMBAR	SPINAL CORD, THORACIC	SPLEEN
STOMACH	THYMUS	TRACHEA	URINARY BLADDER
VAGINA	ZYMBAL'S GLAND		

End of Record- 7320

ORAL (DRINKING WATER) TWO-GENERATION
(ONE LITTER PER GENERATION) REPRODUCTION
STUDY OFAMMONIUM PERCHLORATE IN RATS
PROTOCOL 1416-001
HISTOPATHOLOGY REPORT

APPENDIX VII

PUP GROSS LESIONS

ORAL (DRINKING WATER) TWO-GENERATION (ONE LITTER PER GENERATION) REPRODUCTION STUDY OFAMMONIUM PERCHLORATE IN RATS PROTOCOL 1416-001 HISTOPATHOLOGY REPORT

3810, Pup 10F	Moderate pelvic dilatation	Dilatation, pelvis, moderate
3823, Pup 7M	Tip of tail missing	Tissue not available
3858, Pup 8F	Slight pelvic dilatation, right kidney	Dilatation, pelvis, slight
3872, Pup 10F	Tip of tail missing	No microscopic change to correlate
3883, Pup 9F	Tip of tail missing	Tissue not available
3912, Pup 12F	Slight pelvic dilatation, right kidney	Dilatation, pelvis, slight
3913, Pup (F)	Tongue protruding, micrognathia, snout short, ears lowset: bilateral eyelids open: left, spinal bifida, forelimb: right paw flexed	Observations confirmed
3919, Pup 9F	Moderate pelvic dilatation, right kidney	Dilatation, pelvis, moderate
3919, Pup 12F	Moderate pelvic dilatation, right kidney	Dilatation, pelvis, moderate
3919, Pup 16F	Moderate pelvic dilatation, right kidney	Dilatation, pelvis, slight
7204, Pup 1M	Tip of tail missing	Tissue not available
7205, Pup 6F	Slight pelvic dilatation, left kidney; moderate pelvic dilatation, right kidney	Dilatation, pelvis, moderate
7247, Pup 4F	Tip of tail missing	Tissue not available
7266, Pup 9F	Tip of tail missing	Tissue not available
7299, Pup 2M	Slight pelvic dilatation, right kidney; extreme pelvic dilatation, left kidney Small, left kidney	Dilatation, pelvis, moderate Cyst, cortex Left kidney not present at trimming
7299, Pup 6F	Extreme pelvic dilatation, left kidney Small, left kidney	Left kidney not present at trimming
7306, Pup 3M	Umbilical hernia	Umbilical hernia

APPENDIX K

THYROID AND PITUITARY HORMONE ANALYSIS

ANALYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039313	3631	.3	M	6M	1.83	79.54	4.79
A 0039314	3632	.3	M	6M	0.91	77.36	4.51
A 0039315	3633	.3	M	6M	1.30	131.87	7.01
A 0039316	3634	.3	M	6M	0.81	79.14	4.28
A 0039317	3635	.3	M	6M	2.09	110.78	6.17
A 0039318	3636	.3	M	6M	1.02	79.79	4.55
A 0039319	3637	.3	M	6M	1.69	98.71	4.28
A 0039320	3638	.3	M	6M	0.82	107.52	4.74
A 0039321	3639	.3	M	6M	2.38	82.07	4.28
A 0039322	3640	.3	M	6M	2.14	80.26	3.94
A 0039323	3641	.3	M	6M	1.82	57.22	3.30
A 0039324	3642	.3	M	6M	1.79	87.48	3.75
A 0039325	3643	.3	M	6M	0.65	120.54	4.83
A 0039326	3644	.3	M	6M	1.67	83.31	4.74
A 0039327	3645	.3	M	6M	2.64	91.05	5.01
A 0039328	3646	.3	M	6M	1.08	102.18	5.81
A 0039329	3647	.3	M	6M	1.42	79.21	4.57
A 0039330	3648	.3	M	6M	1.80	72.73	4.18
A 0039331	3649	.3	M	6M	1.26	68.76	4.86
A 0039332	3650	.3	M	6M	0.71	89.35	5.05
A 0039333	3651	.3	M	6M	0.72	78.85	4.25
A 0039334	3652	.3	M	6M	0.61	92.34	5.56
A 0039335	3653	.3	M	6M	2.29	91.63	5.07
A 0039336	3654	.3	M	6M	0.31	109.01	5.63
A 0039337	3655	.3	M	6M	0.78	80.77	4.05
A 0039338	3656	.3	M	6M	1.08	70.67	3.80
A 0039339	3657	.3	M	6M	1.43	91.65	5.36
A 0039340	3658	.3	M	6M	1.17	73.19	4.18
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 1 +

ANILYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039341	3659	.3	M	6M	0.29	74.18	3.57
A 0039342	3660	.3	M	6M	2.07	80.52	5.66
	Mean				1.353	87.389	4.726
	S.D.				.638	16.257	.817
Group 0.3MG/KG/DAY							
A 0039284	3601	0	M	6M	1.19	88.35	5.07
A 0039285	3602	0	M	6M	0.93	84.17	4.35
A 0039286	3603	0	M	6M	0.62	79.49	5.66
A 0039287	3604	0	M	6M	0.80	82.88	5.33
A 0039288	3605	0	M	6M	2.16	86.13	5.19
A 0039289	3606	0	M	6M	1.18	93.42	4.36
A 0039290	3607	0	M	6M	1.05	63.72	3.81
A 0039291	3608	0	M	6M	1.80	69.21	4.18
A 0039292	3609	0	M	6M	4.41	72.29	4.12
A 0039293	3610	0	M	6M	1.40	68.40	4.82
A 0039294	3611	0	M	6M	0.84	61.11	4.24
A 0039295	3612	0	M	6M	1.45	61.69	4.84
A 0039296	3613	0	M	6M	0.56	71.49	4.94
A 0039297	3614	0	M	6M	1.81	83.01	4.56
A 0039298	3615	0	M	6M	1.08	77.97	5.39
A 0039299	3616	0	M	6M	3.04	69.67	3.84
A 0039300	3617	0	M	6M	1.34	71.30	4.95
A 0039301	3618	0	M	6M	2.08	51.76	3.18
A 0039302	3619	0	M	6M	0.42	68.45	4.49
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 2 +

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(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039303	3620	0	M	6M	0.95	66.34	5.01
A 0039304	3621	0	M	6M	2.42	62.40	4.30
A 0039305	3622	0	M	6M	1.48	96.45	4.44
A 0039306	3623	0	M	6M	3.67	61.89	4.17
A 0039307	3624	0	M	6M	0.35	73.45	4.35
A 0039308	3625	0	M	6M	1.88	80.55	4.11
A 0039309	3627	0	M	6M	1.35	55.93	5.37
A 0039310	3628	0	M	6M	0.90	65.47	5.25
A 0039311	3629	0	M	6M	0.75	59.35	4.87
A 0039312	3630	0	M	6M	2.46	77.51	5.40
	Mean				1.53	72.547	4.641
	S.D.				.957	11.228	.583
Group 0							
A 0039343	3661	3.	M	6M	1.29	81.05	5.05
A 0039344	3662	3.	M	6M	2.84	99.22	3.73
A 0039345	3663	3.	M	6M	1.54	92.30	6.09
A 0039346	3664	3.	M	6M	1.36	102.47	4.29
A 0039347	3665	3.	M	6M	1.71	102.42	5.34
A 0039348	3666	3.	M	6M	0.68	67.87	4.79
A 0039349	3667	3.	M	6M	1.39	88.38	4.39
A 0039350	3668	3.	M	6M	0.39	68.59	4.96
A 0039351	3669	3.	M	6M	1.22	75.98	5.99
A 0039352	3670	3.	M	6M	1.91	98.88	4.76
A 0039353	3671	3.	M	6M	3.76	82.85	4.58
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 3 +

ANALYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039354	3672	3.	M	6M	0.87	90.33	5.27
A 0039355	3673	3.	M	6M	1.40	90.58	4.17
A 0039356	3674	3.	M	6M	1.32	90.37	4.38
A 0039357	3675	3.	M	6M	1.03	84.18	4.57
A 0039358	3676	3.	M	6M	0.90	72.26	4.74
A 0039359	3677	3.	M	6M	0.87	79.72	4.73
A 0039360	3678	3.	M	6M	0.38	69.36	3.34
A 0039361	3679	3.	M	6M	2.47	85.77	3.79
A 0039362	3680	3.	M	6M	1.36	74.30	5.45
A 0039363	3681	3.	M	6M	2.58	92.89	4.40
A 0039364	3682	3.	M	6M	2.19	98.91	6.02
A 0039365	3683	3.	M	6M	2.07	111.73	4.99
A 0039366	3684	3.	M	6M	0.77	70.66	4.27
A 0039367	3685	3.	M	6M	0.45	166.80	3.47
A 0039368	3686	3.	M	6M	3.03	81.70	5.52
A 0039369	3687	3.	M	6M	0.96	81.88	4.39
A 0039370	3688	3.	M	6M	1.47	94.46	6.49
A 0039371	3689	3.	M	6M	1.05	79.94	4.74
A 0039372	3690	3.	M	6M	1.35	77.72	3.62
	Mean				1.487	88.452	4.744
	S.D.				.815	18.634	.79
Group 3.0MG/KG/DAY							
A 0039373	3691	30	M	6M	2.58	64.35	3.66
A 0039374	3692	30	M	6M	3.24	89.66	3.66
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 4 +

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Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039375	3693	30	M	6M	2.70	91.40	3.10
A 0039376	3694	30	M	6M	5.17	95.93	3.94
A 0039377	3695	30	M	6M	3.36	85.61	3.95
A 0039378	3696	30	M	6M	1.28	83.01	4.05
A 0039379	3697	30	M	6M	8.21	100.77	6.08
A 0039380	3699	30	M	6M	2.07	60.94	3.23
A 0039381	3700	30	M	6M	1.94	59.68	2.63
A 0039382	3701	30	M	6M	1.76	81.16	3.52
A 0039383	3702	30	M	6M	3.82	92.08	3.39
A 0039384	3703	30	M	6M	3.74	98.18	3.63
A 0039385	3704	30	M	6M	1.76	80.75	4.37
A 0039386	3705	30	M	6M	2.29	68.34	2.62
A 0039387	3706	30	M	6M	1.97	74.23	3.00
A 0039388	3707	30	M	6M	5.37	61.49	3.27
A 0039389	3708	30	M	6M	1.13	84.65	2.10
A 0039390	3709	30	M	6M	14.15	71.72	1.57
A 0039391	3710	30	M	6M	13.31	74.04	2.99
A 0039392	3711	30	M	6M	1.14	71.23	4.50
A 0039393	3712	30	M	6M	1.93	70.55	4.18
A 0039394	3713	30	M	6M	7.40	71.35	4.45
A 0039395	3714	30	M	6M	1.05	64.68	3.00
A 0039396	3715	30	M	6M	1.79	116.75	4.08
A 0039397	3716	30	M	6M	1.97	89.85	4.68
A 0039398	3717	30	M	6M	0.94	66.63	3.19
A 0039399	3718	30	M	6M	8.27	78.42	3.95
A 0039400	3719	30	M	6M	6.87	54.88	3.35
A 0039401	3720	30	M	6M	1.04	76.21	3.61
	Mean				3.871	78.57	3.578
	S.D.				3.495	14.363	.86

Group 30MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

Approved ---------- Date 11/5/98

Page 5 of 5

ANILYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 FEMALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039195	3831	.3	F	5M	1.46	46.98	1.38
A 0039196	3832	.3	F	5M	2.99	76.19	3.82
A 0039197	3833	.3	F	5M	1.42	118.14	2.13
A 0039198	3834	.3	F	5M	1.40	39.12	3.15
A 0039199	3835	.3	F	5M	1.64	78.71	4.42
A 0039200	3836	.3	F	5M	1.48	102.72	3.65
A 0039201	3837	.3	F	5M	1.30	50.23	3.71
A 0039202	3838	.3	F	5M	2.02	54.58	2.16
A 0039203	3839	.3	F	5M	1.16	82.60	4.07
A 0039204	3840	.3	F	5M	2.40	132.21	5.87
A 0039205	3841	.3	F	5M	1.71	67.83	3.55
A 0039206	3842	.3	F	5M	2.67	50.68	2.93
A 0039207	3843	.3	F	5M	4.82	42.96	2.44
A 0039208	3844	.3	F	5M	1.88	141.56	3.76
A 0039209	3845	.3	F	5M	1.07	43.53	1.14
A 0039210	3846	.3	F	5M	1.26	49.05	2.57
A 0039211	3847	.3	F	5M	1.63	84.55	2.96
A 0039212	3848	.3	F	5M	2.78	54.17	2.11
A 0039213	3849	.3	F	5M	1.13	43.88	2.48
A 0039214	3850	.3	F	5M	2.72	46.08	2.92
A 0039215	3851	.3	F	5M	3.71	45.33	1.66
A 0039216	3852	.3	F	5M	1.76	34.24	1.54
A 0039217	3853	.3	F	5M	2.51	101.45	3.29
A 0039218	3854	.3	F	5M	1.34	42.79	2.46
A 0039219	3855	.3	F	5M	1.62	28.25	1.42
A 0039220	3856	.3	F	5M	3.47	40.06	3.48
A 0039221	3857	.3	F	5M	2.79	46.68	3.64
A 0039222	3858	.3	F	5M	4.32	69.99	2.02
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 1 +

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905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 FEMALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039223	3859	.3	F	5M	3.17	58.12	2.98
A 0039224	3860	.3	F	5M	2.77	70.99	3.39
	Mean				2.213	64.789	2.903
	S.D.				.987	29.277	1.039
Group 0.3MG/KG/DAY							
A 0039165	3801	0	F	5M	0.72	27.62	1.79
A 0039166	3802	0	F	5M	3.51	88.20	4.35
A 0039167	3803	0	F	5M	0.84	23.88	1.05
A 0039168	3804	0	F	5M	1.66	55.70	1.45
A 0039169	3805	0	F	5M	1.31	56.03	2.47
A 0039170	3806	0	F	5M	2.46	36.57	2.23
A 0039171	3807	0	F	5M	1.82	48.65	2.04
A 0039172	3808	0	F	5M	1.59	62.75	2.98
A 0039173	3809	0	F	5M	1.39	62.30	2.02
A 0039174	3810	0	F	5M	2.41	44.70	2.80
A 0039175	3811	0	F	5M	1.44	50.48	2.06
A 0039176	3812	0	F	5M	1.86	47.12	1.68
A 0039177	3813	0	F	5M	2.77	43.52	2.43
A 0039178	3814	0	F	5M	1.36	52.48	2.16
A 0039179	3815	0	F	5M	1.80	68.54	2.10
A 0039180	3816	0	F	5M	3.16	108.80	1.58
A 0039181	3817	0	F	5M	1.31	68.48	2.64
A 0039182	3818	0	F	5M	1.50	159.25	1.45
A 0039183	3819	0	F	5M	2.59	41.89	1.45
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 2 +

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Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 FEMALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039184	3820	0	F	5M	1.59	114.68	3.17
A 0039185	3821	0	F	5M	2.08	44.07	1.11
A 0039186	3822	0	F	5M	5.24	60.97	1.93
A 0039187	3823	0	F	5M	1.97	43.95	1.90
A 0039188	3824	0	F	5M	1.83	24.39	1.34
A 0039189	3825	0	F	5M	2.05	53.42	1.88
A 0039190	3826	0	F	5M	2.41	40.63	2.33
A 0039191	3827	0	F	5M	2.00	38.53	1.83
A 0039192	3828	0	F	5M	2.20	47.03	2.46
A 0039193	3829	0	F	5M	2.82	60.18	2.44
A 0039194	3830	0	F	5M	1.93	58.28	2.67
	Mean				2.054	57.77	2.126
	S.D.				.873	28.204	.677
Group 0							
A 0039225	3861	3.	F	5M	1.71	47.40	3.05
A 0039226	3862	3.	F	5M	3.25	65.02	3.67
A 0039227	3863	3.	F	5M	0.87	61.89	2.24
A 0039228	3864	3.	F	5M	0.62	47.74	1.36
A 0039229	3865	3.	F	5M	2.36	42.31	2.07
A 0039230	3866	3.	F	5M	1.46	49.32	2.56
A 0039231	3867	3.	F	5M	2.72	49.26	2.15
A 0039232	3868	3.	F	5M	2.26	48.82	2.20
A 0039233	3869	3.	F	5M	1.09	45.46	2.24
A 0039234	3870	3.	F	5M	1.80	89.35	3.60
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 3 +

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Client No. 1028 Study: 1416-001 FEMALES Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TCTAL UG/DL
A 0039235	3871	3.	F	5M	1.52	85.38	4.03
A 0039236	3872	3.	F	5M	2.11	58.63	2.69
A 0039237	3873	3.	F	5M	2.29	45.69	2.68
A 0039238	3874	3.	F	5M	1.92	90.35	3.97
A 0039239	3875	3.	F	5M	2.16	53.03	3.06
A 0039240	3876	3.	F	5M	2.88	42.69	1.46
A 0039241	3877	3.	F	5M	3.26	52.51	2.74
A 0039242	3878	3.	F	5M	1.50	63.21	4.25
A 0039243	3879	3.	F	5M	1.27	38.87	1.64
A 0039244	3880	3.	F	5M	1.44	53.24	2.68
A 0039245	3882	3.	F	5M	1.41	58.15	2.82
A 0039246	3883	3.	F	5M	3.87	46.05	2.90
A 0039247	3884	3.	F	5M	1.19	75.50	3.59
A 0039248	3885	3.	F	5M	1.44	43.87	3.15
A 0039249	3886	3.	F	5M	2.53	70.42	4.63
A 0039250	3887	3.	F	5M	2.46	47.75	3.83
A 0039251	3888	3.	F	5M	1.38	50.40	2.42
A 0039252	3889	3.	F	5M	2.27	59.71	3.69
A 0039253	3890	3.	F	5M	2.67	52.14	3.43
	Mean				1.99	56.35	2.924
	S.D.				.773	13.992	.841
Group 3.0MG/KG/DAY							
A 0039254	3891	30	F	5M	2.33	37.30	1.90
A 0039255	3892	30	F	5M	2.04	56.00	3.92
Reference Range					.57 - 3.41	50 - 100	3 - 7

Page 4 +

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A 0039256	3893	30	F	5M	1.27	45.02	3.02
A 0039257	3894	30	F	5M	2.99	43.84	1.83
A 0039258	3895	30	F	5M	2.59	40.47	3.06
A 0039259	3896	30	F	5M	1.34	68.29	3.24
A 0039260	3897	30	F	5M	1.20	55.97	2.39
A 0039261	3898	30	F	5M	2.67	108.40	3.11
A 0039262	3899	30	F	5M	1.52	60.10	3.29
A 0039263	3900	30	F	5M	1.51	42.03	2.28
A 0039264	3901	30	F	5M	1.44	38.32	1.83
A 0039265	3902	30	F	5M	1.27	46.37	2.25
A 0039266	3903	30	F	5M	3.33	89.67	2.39
A 0039267	3904	30	F	5M	1.66	54.31	2.59
A 0039268	3905	30	F	5M	2.47	91.70	4.62
A 0039269	3906	30	F	5M	3.02	47.31	2.46
A 0039270	3907	30	F	5M	2.64	64.16	1.88
A 0039271	3908	30	F	5M	2.14	107.67	2.78
A 0039272	3909	30	F	5M	1.80	100.45	2.54
A 0039273	3910	30	F	5M	3.30	49.36	1.58
A 0039274	3911	30	F	5M	1.53	79.20	2.98
A 0039275	3912	30	F	5M	1.80	88.74	1.59
A 0039276	3913	30	F	5M	3.06	41.83	1.57
A 0039277	3914	30	F	5M	1.51	77.67	2.47
A 0039278	3915	30	F	5M	3.58	50.85	1.08
A 0039279	3916	30	F	5M	1.45	47.37	1.53
A 0039280	3917	30	F	5M	1.82	47.81	2.06
A 0039281	3918	30	F	5M	2.49	42.50	2.93
A 0039282	3919	30	F	5M	1.98	39.32	2.28
A 0039283	3920	30	F	5M	3.46	49.17	1.19
	Mean				2.174	60.373	2.421
	S.D.				.744	21.97	.792

Group 30MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

Approved ---------- Date 11/5/98

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Date Collected: / /
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Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039096	3831	.3	M	21D	1.16	140.77	5.55
A 0039097	3833	.3	M	21D	1.02	102.38	3.45
A 0039098	3834	.3	M	21D	0.50	98.34	3.77
A 0039099	3837	.3	M	21D	1.12	109.50	4.00
A 0039100	3838	.3	M	21D	0.48	104.64	3.91
A 0039101	3842	.3	M	21D	0.83	116.33	4.59
A 0039102	3843	.3	M	21D	1.00	126.47	4.72
A 0039103	3845	.3	M	21D	0.63	77.78	3.68
A 0039104	3846	.3	M	21D	0.97	100.00	4.52
A 0039105	3848	.3	M	21D	0.97	83.62	3.07
A 0039106	3849	.3	M	21D	0.89	117.49	5.07
A 0039107	3850	.3	M	21D	0.72	91.03	4.41
A 0039108	3851	.3	M	21D	0.98	116.70	5.70
A 0039109	3852	.3	M	21D	0.58	109.25	3.97
A 0039110	3854	.3	M	21D	0.91	128.06	6.23
A 0039111	3855	.3	M	21D	0.66	135.82	4.82
A 0039112	3856	.3	M	21D	1.04	119.85	3.95
A 0039113	3857	.3	M	21D	1.48	115.96	6.37
A 0039114	3858	.3	M	21D	2.00	117.18	5.60
A 0039115	3859	.3	M	21D	1.05	126.16	6.00
A 0039116	3860	.3	M	21D	0.77	96.81	3.53
	Mean				.941	111.15	4.615
	S.D.				.342	16.372	.979

Group 0.3MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

Page 1 +

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Date Collected: / /
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Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039069	3801	0	M	21D	0.90	120.00	5.66
A 0039070	3803	0	M	21D	0.85	99.80	4.97
A 0039071	3804	0	M	21D	1.14	104.22	3.83
A 0039072	3805	0	M	21D	0.97	112.25	4.76
A 0039073	3806	0	M	21D	1.02	98.19	4.09
A 0039074	3807	0	M	21D	0.97	104.56	4.46
A 0039075	3808	0	M	21D	1.34	109.78	5.27
A 0039076	3809	0	M	21D	1.90	86.13	3.07
A 0039077	3810	0	M	21D	1.03	99.47	5.02
A 0039078	3811	0	M	21D	1.03	110.48	4.54
A 0039079	3812	0	M	21D	1.61	99.33	4.41
A 0039080	3813	0	M	21D	1.66	116.19	3.59
A 0039081	3814	0	M	21D	1.59	118.50	5.95
A 0039082	3815	0	M	21D	0.56	103.55	2.67
A 0039083	3816	0	M	21D	2.30	96.28	3.17
A 0039084	3818	0	M	21D	1.17	116.60	4.52
A 0039085	3819	0	M	21D	0.98	94.88	3.10
A 0039086	3821	0	M	21D	0.58	111.49	3.81
A 0039087	3822	0	M	21D	0.70	97.51	3.49
A 0039088	3823	0	M	21D	1.16	105.90	2.55
A 0039089	3824	0	M	21D	1.93	108.85	5.97
A 0039090	3825	0	M	21D	1.17	115.59	4.89
A 0039091	3826	0	M	21D	1.59	85.59	3.77
A 0039092	3827	0	M	21D	1.84	114.60	5.76
A 0039093	3828	0	M	21D	1.12	125.29	5.41
A 0039094	3829	0	M	21D	1.59	106.54	5.60
A 0039095	3830	0	M	21D	0.71	97.65	4.56
	Mean				1.237	105.897	4.403
	S.D.				.448	9.976	1.013

Group 0

Reference Range	.57 - 3.41	50 - 100	3 - 7

Page 2 +

ANILYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039117	3861	3.	M	21D	0.38	96.85	4.73
A 0039118	3862	3.	M	21D	0.88	91.83	3.51
A 0039119	3863	3.	M	21D	1.07	115.12	5.69
A 0039120	3864	3.	M	21D	0.95	86.32	3.81
A 0039121	3865	3.	M	21D	1.20	86.70	4.04
A 0039122	3866	3.	M	21D	0.81	114.95	4.22
A 0039123	3867	3.	M	21D	0.67	101.21	3.34
A 0039124	3868	3.	M	21D	0.93	85.71	5.11
A 0039125	3869	3.	M	21D	0.99	100.07	4.33
A 0039126	3872	3.	M	21D	1.34	117.67	4.26
A 0039127	3873	3.	M	21D	1.27	114.37	4.86
A 0039128	3875	3.	M	21D	0.99	135.10	5.59
A 0039129	3876	3.	M	21D	1.38	126.16	4.60
A 0039130	3877	3.	M	21D	0.70	127.60	4.77
A 0039131	3878	3.	M	21D	0.63	139.04	4.65
A 0039132	3879	3.	M	21D	0.60	114.07	3.87
A 0039133	3880	3.	M	21D	0.56	101.60	5.67
A 0039134	3882	3.	M	21D	0.83	123.71	5.71
A 0039135	3883	3.	M	21D	0.80	119.86	4.95
A 0039136	3884	3.	M	21D	1.17	120.28	4.03
A 0039137	3885	3.	M	21D	0.72	96.82	4.53
A 0039138	3887	3.	M	21D	0.88	126.66	4.59
A 0039139	3888	3.	M	21D	0.69	102.72	4.37
A 0039140	3889	3.	M	21D	0.76	90.42	5.54
A 0039141	3890	3.	M	21D	0.72	110.42	2.56
	Mean				.877	109.81	4.533
	S.D.				.254	15.693	.789

Group 3.0MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

ANALYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/05/98

Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039142	3891	30	M	21D	1.10	103.06	4.09
A 0039143	3893	30	M	21D	0.74	118.93	5.40
A 0039144	3894	30	M	21D	1.55	107.78	4.94
A 0039145	3895	30	M	21D	1.68	94.67	5.01
A 0039146	3897	30	M	21D	1.20	101.91	4.31
A 0039147	3899	30	M	21D	0.95	91.54	4.67
A 0039148	3900	30	M	21D	1.22	86.49	2.85
A 0039149	3901	30	M	21D	0.74	79.34	4.10
A 0039150	3902	30	M	21D	1.04	94.80	3.59
A 0039151	3904	30	M	21D	1.01	93.58	4.68
A 0039152	3905	30	M	21D	1.71	117.53	2.64
A 0039153	3906	30	M	21D	0.89	100.49	4.94
A 0039154	3907	30	M	21D	1.63	127.13	6.03
A 0039155	3910	30	M	21D	2.43	127.13	6.70
A 0039156	3911	30	M	21D	1.02	104.62	3.62
A 0039157	3912	30	M	21D	1.44	104.71	2.74
A 0039158	3913	30	M	21D	1.62	95.74	5.66
A 0039159	3915	30	M	21D	1.24	118.72	5.75
A 0039160	3916	30	M	21D	1.18	101.66	3.69
A 0039161	3917	30	M	21D	1.28	115.02	5.51
A 0039162	3918	30	M	21D	1.36	142.11	5.34
A 0039163	3919	30	M	21D	0.98	104.32	4.04
A 0039164	3920	30	M	21D	1.20	138.88	3.78
	Mean				1.27	107.398	4.525
	S.D.				.381	16.06	1.086

Group 30MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

Approved ---------- Date 11/5/98

Page 4 of 4

ANALYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
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Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/20/98

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0038998	3831	.3	F	21D	0.84	118.75	5.65
A 0038999	3833	.3	F	21D	1.47	122.11	6.87
A 0039000	3834	.3	F	21D	0.74	105.27	4.72
A 0039001	3837	.3	F	21D	1.61	109.33	4.62
A 0039002	3838	.3	F	21D	0.76	116.85	3.92
A 0039003	3842	.3	F	21D	0.96	116.94	4.97
A 0039004	3843	.3	F	21D	0.91	123.21	5.54
A 0039005	3845	.3	F	21D	0.47	95.72	4.43
A 0039006	3846	.3	F	21D	1.62	99.48	4.52
A 0039007	3847	.3	F	21D	1.14	139.51	4.28
A 0039008	3848	.3	F	21D	1.11	99.10	4.77
A 0039009	3849	.3	F	21D	1.33	125.37	5.77
A 0039010	3850	.3	F	21D	1.84	85.45	4.11
A 0039011	3851	.3	F	21D	1.16	105.31	3.56
A 0039012	3852	.3	F	21D	1.27	106.74	4.42
A 0039013	3854	.3	F	21D	1.27	116.06	5.47
A 0039014	3855	.3	F	21D	0.89	119.82	4.15
A 0039015	3856	.3	F	21D	1.00	114.33	3.58
A 0039016	3857	.3	F	21D	1.52	93.59	4.84
A 0039017	3858	.3	F	21D	1.73	104.69	6.25
A 0039018	3859	.3	F	21D	1.30	111.68	6.70
A 0039019	3860	.3	F	21D	1.20	88.98	3.89
	Mean				1.188	109.922	4.865
	S.D.				.352	13.066	.946

Group 0.3MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

Page 1 +

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200 Girard Street, Suite 200, Gaithersburg, MD 20877
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Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/20/98

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0038970	3801	0	F	21D	0.54	118.93	4.57
A 0038971	3802	0	F	21D	0.56	127.92	2.80
A 0038972	3803	0	F	21D	1.64	93.98	4.37
A 0038973	3804	0	F	21D	0.87	112.45	3.55
A 0038974	3805	0	F	21D	1.16	114.92	5.82
A 0038975	3806	0	F	21D	0.74	95.62	4.24
A 0038976	3807	0	F	21D	1.30	107.53	4.34
A 0038977	3808	0	F	21D	1.53	100.83	4.66
A 0038978	3809	0	F	21D	1.07	107.58	4.42
A 0038979	3810	0	F	21D	0.86	102.97	4.53
A 0038980	3811	0	F	21D	0.91	122.60	4.05
A 0038981	3812	0	F	21D	1.19	104.24	3.55
A 0038982	3813	0	F	21D	1.74	103.20	3.18
A 0038983	3814	0	F	21D	0.85	109.83	3.14
A 0038984	3815	0	F	21D	0.69	88.40	2.48
A 0038985	3816	0	F	21D	2.74	85.37	3.32
A 0038986	3818	0	F	21D	0.85	104.36	4.89
A 0038987	3819	0	F	21D	1.16	101.32	3.59
A 0038988	3821	0	F	21D	0.84	79.83	4.37
A 0038989	3822	0	F	21D	0.57	90.65	3.09
A 0038990	3823	0	F	21D	1.18	107.12	3.08
A 0038991	3824	0	F	21D	1.45	117.65	4.68
A 0038992	3825	0	F	21D	0.73	104.83	5.96
A 0038993	3826	0	F	21D	1.51	105.71	5.29
A 0038994	3827	0	F	21D	1.35	115.38	5.59
A 0038995	3828	0	F	21D	0.16	137.69	6.65
A 0038996	3829	0	F	21D	1.70	115.59	4.80
A 0038997	3830	0	F	21D	1.48	90.20	4.54
	Mean				1.12	105.954	4.27
	S.D.				.51	13.075	1.019

Group 0

Reference Range	.57 - 3.41	50 - 100	3 - 7

Page 2 +

ANALYTICS INCORPORATED
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301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/20/98

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039020	3861	3.	F	21D	1.19	94.02	5.40
A 0039021	3862	3.	F	21D	1.28	100.02	3.30
A 0039022	3863	3.	F	21D	1.67	104.22	5.34
A 0039023	3864	3.	F	21D	0.70	81.32	3.63
A 0039024	3865	3.	F	21D	1.15	88.17	4.35
A 0039025	3866	3.	F	21D	1.21	104.71	4.07
A 0039026	3867	3.	F	21D	0.61	111.35	4.11
A 0039027	3869	3.	F	21D	0.98	113.15	4.25
A 0039028	3872	3.	F	21D	1.48	117.39	5.01
A 0039029	3873	3.	F	21D	2.15	118.55	4.18
A 0039030	3875	3.	F	21D	1.40	102.32	4.54
A 0039031	3876	3.	F	21D	1.62	142.56	4.44
A 0039032	3877	3.	F	21D	1.23	125.24	3.94
A 0039033	3878	3.	F	21D	0.70	112.91	4.06
A 0039034	3879	3.	F	21D	0.90	109.09	3.78
A 0039035	3880	3.	F	21D	0.67	89.02	4.96
A 0039036	3882	3.	F	21D	0.82	116.22	6.23
A 0039037	3883	3.	F	21D	1.01	120.88	3.90
A 0039038	3884	3.	F	21D	1.30	131.74	3.78
A 0039039	3885	3.	F	21D	0.62	98.85	4.46
A 0039040	3887	3.	F	21D	0.86	110.08	4.12
A 0039041	3888	3.	F	21D	1.00	108.36	5.20
A 0039042	3889	3.	F	21D	1.36	108.76	5.06
A 0039043	3890	3.	F	21D	1.18	114.05	2.70
A 0039067	3868	3.	F	21D	1.43	109.34	3.28
	Mean				1.141	109.293	4.324
	S.D.				.375	13.568	.778

Group 3.0MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

Page 3 +

ANALYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 10/15/98
Date Reported: 11/20/98

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	TSH NG/ML	T3,TOTAL NG/DL	T4,TOTAL UG/DL
A 0039044	3891	30	F	21D	1.11	101.34	3.64
A 0039045	3892	30	F	21D	1.47	106.42	2.84
A 0039046	3893	30	F	21D	1.01	96.20	4.49
A 0039047	3894	30	F	21D	1.50	110.06	3.96
A 0039048	3895	30	F	21D	2.05	89.95	4.46
A 0039049	3897	30	F	21D	1.32	94.62	3.17
A 0039050	3899	30	F	21D	1.29	94.64	4.82
A 0039051	3900	30	F	21D	1.34	95.71	2.83
A 0039052	3901	30	F	21D	0.60	82.98	2.91
A 0039053	3902	30	F	21D	1.11	95.47	3.52
A 0039054	3904	30	F	21D	1.11	90.80	2.94
A 0039055	3906	30	F	21D	1.14	87.52	3.42
A 0039056	3907	30	F	21D	1.54	79.28	2.67
A 0039057	3910	30	F	21D	2.14	124.86	4.21
A 0039058	3911	30	F	21D	1.19	90.74	2.88
A 0039059	3912	30	F	21D	1.19	102.83	3.78
A 0039060	3913	30	F	21D	1.70	98.04	4.67
A 0039061	3915	30	F	21D	1.65	106.41	4.65
A 0039062	3916	30	F	21D	1.10	115.86	4.31
A 0039063	3917	30	F	21D	0.93	97.81	5.24
A 0039064	3918	30	F	21D	1.01	93.00	4.54
A 0039065	3919	30	F	21D	1.34	80.96	6.74
A 0039066	3920	30	F	21D	1.09	108.86	3.31
	Mean				1.301	97.581	3.913
	S.D.				.351	11.046	.983

Group 30MG/KG/DAY

Reference Range	.57 - 3.41	50 - 100	3 - 7

Approved ---------- Date 11/20/98

Page 4 of 4

ANALYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
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Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 MA ADULT Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048662	7001	1	M	5M	88.39	3.86	1.52
A 0048663	7002	1	M	5M	82.26	4.15	2.01
A 0048664	7003	1	M	5M	67.33	4.07	2.85
A 0048665	7004	1	M	5M	80.64	4.54	3.89
A 0048666	7005	1	M	5M	83.66	4.03	3.27
A 0048667	7006	1	M	5M	100.44	4.04	1.97
A 0048668	7007	1	M	5M	91.80	3.00	2.13
A 0048669	7008	1	M	5M	87.52	3.66	1.71
A 0048670	7009	1	M	5M	82.99	4.02	3.19
A 0048671	7010	1	M	5M	84.48	3.17	2.64
A 0048672	7011	1	M	5M	71.87	3.95	1.31
A 0048673	7012	1	M	5M	72.83	3.23	1.72
A 0048674	7013	1	M	5M	83.13	3.98	1.90
A 0048675	5450	1	M	5M	75.21	3.92	2.33
A 0048676	7015	1	M	5M	92.72	4.39	1.86
A 0048677	7016	1	M	5M	96.36	4.12	2.14
A 0048678	7017	1	M	5M	88.17	3.15	1.48
A 0048679	7018	1	M	5M	74.42	3.28	2.43
A 0048680	7019	1	M	5M	74.14	3.58	3.69
A 0048681	7020	1	M	5M	75.52	5.14	2.20
A 0048682	7021	1	M	5M	68.58	3.20	5.58
A 0048683	7022	1	M	5M	73.42	2.77	1.73
A 0048684	7023	1	M	5M	80.03	3.30	2.79
A 0048685	7024	1	M	5M	89.41	3.65	4.14
A 0048686	7025	1	M	5M	74.64	3.76	1.95
A 0048687	7026	1	M	5M	88.78	4.96	1.84
A 0048688	7027	1	M	5M	75.64	3.47	2.70
A 0048689	7028	1	M	5M	84.80	3.54	4.55
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 1 +

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301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 MA ADULT Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048690	7029	1	M	5M	91.69	3.54	1.92
A 0048691	7030	1	M	5M	94.14	4.04	1.77
	Mean				82.5	3.784	2.507
	S.D.				8.677	.547	1.01
Group 1							
A 0048692	7031	2	M	5M	85.90	3.73	5.17
A 0048693	7032	2	M	5M	87.66	3.32	3.02
A 0048694	7033	2	M	5M	67.38	2.83	3.15
A 0048695	7034	2	M	5M	103.86	3.64	1.13
A 0048696	7035	2	M	5M	99.93	3.64	1.26
A 0048697	7036	2	M	5M	47.91	2.59	1.26
A 0048698	7037	2	M	5M	65.17	4.32	1.84
A 0048699	7038	2	M	5M	80.64	4.75	1.23
A 0048700	7039	2	M	5M	98.26	5.64	2.47
A 0048701	7040	2	M	5M	82.49	3.93	1.35
A 0048702	7041	2	M	5M	75.34	4.28	2.25
A 0048703	7042	2	M	5M	82.56	3.99	3.41
A 0048704	7043	2	M	5M	73.70	4.19	1.72
A 0048705	7044	2	M	5M	98.55	5.67	1.55
A 0048706	7045	2	M	5M	66.78	4.16	0.52
A 0048707	7046	2	M	5M	74.10	4.81	2.12
A 0048708	7047	2	M	5M	77.58	3.92	4.85
A 0048709	7048	2	M	5M	104.88	4.59	2.96
A 0048710	7049	2	M	5M	85.32	4.16	2.77
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 2 +

ANILYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 MA ADULT Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048711	7050	2	M	5M	108.35	6.93	1.70
A 0048712	7051	2	M	5M	84.21	4.54	2.49
A 0048713	7052	2	M	5M	63.66	4.08	2.38
A 0048714	7053	2	M	5M	60.71	4.23	2.61
A 0048715	7054	2	M	5M	82.48	4.05	1.19
A 0048716	7055	2	M	5M	93.57	4.36	1.31
A 0048717	7056	2	M	5M	58.53	3.07	2.23
A 0048718	7057	2	M	5M	73.16	4.57	1.46
A 0048719	7058	2	M	5M	70.23	3.83	1.42
A 0048720	7059	2	M	5M	104.88	5.00	2.18
A 0048721	7060	2	M	5M	80.30	3.60	1.92
	Mean				81.27	4.214	2.164
	S.D.				15.435	.862	1.044
Group 2							
A 0048722	7061	3	M	5M	86.59	4.92	0.99
A 0048723	7062	3	M	5M	108.05	5.05	0.90
A 0048724	7063	3	M	5M	81.15	3.05	2.46
A 0048725	7064	3	M	5M	83.08	3.81	2.83
A 0048726	7065	3	M	5M	97.19	4.26	1.64
A 0048727	7066	3	M	5M	79.03	4.77	1.17
A 0048728	7067	3	M	5M	87.06	3.45	1.37
A 0048729	7068	3	M	5M	59.89	3.36	1.63
A 0048730	7069	3	M	5M	89.21	4.49	0.85
A 0048731	7070	3	M	5M	36.01	1.43	1.67
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 3 +

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Client No. 1028 Study: 1416-001 MA ADULT Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048732	7071	3	M	5M	92.34	4.00	2.41
A 0048733	7072	3	M	5M	69.44	3.68	7.81
A 0048734	7073	3	M	5M	72.56	3.14	1.73
A 0048735	7074	3	M	5M	76.24	4.10	1.10
A 0048736	7075	3	M	5M	95.73	4.97	1.65
A 0048737	7076	3	M	5M	72.91	4.23	1.39
A 0048738	7077	3	M	5M	79.33	4.07	3.52
A 0048739	7078	3	M	5M	90.99	3.85	2.82
A 0048740	7079	3	M	5M	75.99	6.00	1.05
A 0048741	7080	3	M	5M	96.20	4.73	3.99
A 0048742	7081	3	M	5M	57.51	3.62	1.29
A 0048743	7082	3	M	5M	73.73	4.05	7.94
A 0048744	7083	3	M	5M	86.64	4.48	3.89
A 0048745	7084	3	M	5M	111.39	4.51	1.48
A 0048746	7085	3	M	5M	86.16	5.23	1.83
A 0048747	7086	3	M	5M	103.76	5.60	1.62
A 0048748	7087	3	M	5M	96.20	4.36	1.83
A 0048749	7088	3	M	5M	74.54	4.58	1.55
A 0048750	7089	3	M	5M	67.45	3.84	2.53
A 0048751	7090	3	M	5M	110.59	4.48	2.15
	Mean				83.232	4.204	2.303
	S.D.				16.496	.865	1.729
Group 3							
A 0048752	7091	4	M	5M	71.95	2.13	8.74
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 4 +

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Client No. 1028 Study: 1416-001 MA ADULT Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048753	7092	4	M	5M	101.82	2.21	4.02
A 0048754	7093	4	M	5M	75.44	3.63	5.73
A 0048755	7094	4	M	5M	58.48	1.92	6.32
A 0048756	7095	4	M	5M	84.64	3.65	4.69
A 0048757	7096	4	M	5M	92.33	3.13	3.90
A 0048758	7097	4	M	5M	69.34	2.98	11.39
A 0048759	7098	4	M	5M	83.13	3.14	2.32
A 0048760	7099	4	M	5M	77.27	2.55	3.32
A 0048761	7100	4	M	5M	103.58	3.58	8.75
A 0048762	7101	4	M	5M	98.74	3.98	6.30
A 0048763	7102	4	M	5M	60.05	3.27	1.76
A 0048764	7103	4	M	5M	81.01	2.77	1.85
A 0048765	7104	4	M	5M	66.63	1.91	4.94
A 0048766	7105	4	M	5M	88.44	3.32	2.17
A 0048767	7106	4	M	5M	71.35	1.64	2.30
A 0048768	7107	4	M	5M	76.71	1.47	8.30
A 0048769	7108	4	M	5M	68.45	2.07	3.93
A 0048770	7109	4	M	5M	76.79	3.01	7.47
A 0048771	7110	4	M	5M	88.69	3.52	5.37
A 0048772	7112	4	M	5M	89.81	2.94	3.74
A 0048773	7114	4	M	5M	108.66	3.41	6.49
A 0048774	7116	4	M	5M	90.47	2.42	4.96
A 0048775	7117	4	M	5M	87.34	3.68	1.27
A 0048776	7118	4	M	5M	103.32	2.45	5.41
A 0048777	7119	4	M	5M	77.41	2.32	7.39
A 0048778	7120	4	M	5M	88.30	1.87	6.92
	Mean				82.969	2.777	5.176
	S.D.				13.378	.716	2.523

Group 4

Reference Range	50 - 100	3 - 7	.57 - 3.41

Approved _____ Date 1/21/99

Page 5 of 5

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905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 FE ADULT Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048879	7201	1	F	5M	87.59	3.81	1.35
A 0048880	7202	1	F	5M	51.50	1.69	3.34
A 0048881	7203	1	F	5M	94.21	3.33	1.21
A 0048882	7204	1	F	5M	38.84	2.43	1.62
A 0048883	7205	1	F	5M	43.74	1.96	0.64
A 0048884	7206	1	F	5M	96.01	3.92	1.03
A 0048885	7207	1	F	5M	103.91	3.18	0.95
A 0048886	7208	1	F	5M	49.11	1.80	0.48
A 0048887	7209	1	F	5M	100.58	2.48	1.88
A 0048888	7210	1	F	5M	31.36	1.26	2.36
A 0048889	7211	1	F	5M	29.23	2.37	0.92
A 0048890	7212	1	F	5M	99.49	4.86	2.73
A 0048891	7213	1	F	5M	45.97	1.18	2.00
A 0048892	7214	1	F	5M	72.67	2.03	5.22
A 0048893	7215	1	F	5M	46.01	0.89	0.94
A 0048894	7216	1	F	5M	49.18	1.64	1.19
A 0048895	7217	1	F	5M	40.17	1.47	2.33
A 0048896	7218	1	F	5M	42.09	1.93	0.76
A 0048897	7219	1	F	5M	48.65	1.75	2.02
A 0048898	7220	1	F	5M	88.26	2.51	2.85
A 0048899	7221	1	F	5M	91.95	2.50	2.73
A 0048900	7222	1	F	5M	79.60	2.87	1.46
A 0048901	7223	1	F	5M	79.92	4.14	1.55
A 0048902	7224	1	F	5M	39.93	1.36	1.10
A 0048903	7225	1	F	5M	43.58	2.79	0.62
A 0048904	7226	1	F	5M	38.26	1.25	1.11
A 0048905	7227	1	F	5M	48.92	1.38	1.41
A 0048906	7228	1	F	5M	35.52	0.70	1.15
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 1 +

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BUILDING A
HORSHAM, PA 19044-
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Date Collected: / /
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Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 FE ADULT Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048907	7229	1	F	5M	36.64	1.69	1.04
A 0048908	7230	1	F	5M	91.21	1.40	0.77
	Mean				61.47	2.219	1.625
	S.D.				25.235	1.025	1.006
Group 1							
A 0048909	7231	2	F	5M	58.33	1.69	2.12
A 0048910	7232	2	F	5M	38.37	1.62	1.71
A 0048911	7233	2	F	5M	34.14	0.60	0.69
A 0048912	7234	2	F	5M	69.33	3.75	1.49
A 0048913	7235	2	F	5M	26.82	1.30	0.64
A 0048914	7236	2	F	5M	27.63	1.29	1.74
A 0048915	7237	2	F	5M	55.44	2.25	0.96
A 0048916	7238	2	F	5M	38.11	1.73	0.81
A 0048917	7239	2	F	5M	48.88	3.29	1.81
A 0048918	7240	2	F	5M	73.87	1.63	1.32
A 0048919	7241	2	F	5M	44.98	2.36	0.73
A 0048920	7242	2	F	5M	44.17	1.45	0.39
A 0048921	7243	2	F	5M	126.50	4.27	1.36
A 0048922	7244	2	F	5M	50.23	2.49	1.73
A 0048923	7245	2	F	5M	46.18	1.48	1.27
A 0048924	7246	2	F	5M	45.66	1.80	0.94
A 0048925	7247	2	F	5M	42.14	2.41	0.71
A 0048926	7248	2	F	5M	35.69	1.91	0.72
A 0048927	7249	2	F	5M	49.97	1.52	1.15
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 2 +

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Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048928	7250	2	F	5M	36.92	1.70	0.84
A 0048929	7251	2	F	5M	49.86	1.74	0.34
A 0048930	7252	2	F	5M	43.55	1.54	0.95
A 0048931	7254	2	F	5M	30.33	1.07	0.82
A 0048932	7255	2	F	5M	58.08	2.17	1.13
A 0048933	7256	2	F	5M	45.50	1.99	1.09
A 0048934	7257	2	F	5M	36.84	2.12	0.91
A 0048935	7258	2	F	5M	53.79	1.96	1.34
A 0048936	7259	2	F	5M	62.69	1.76	3.61
A 0048937	7260	2	F	5M	110.53	3.87	2.16
	Mean				51.191	2.026	1.223
	S.D.				21.939	.836	.663
Group 2							
A 0048938	7261	3	F	5M	123.34	2.38	1.50
A 0048939	7262	3	F	5M	47.10	1.76	1.31
A 0048940	7263	3	F	5M	47.23	1.84	0.88
A 0048941	7264	3	F	5M	40.80	1.32	0.95
A 0048942	7265	3	F	5M	48.29	2.66	0.85
A 0048943	7266	3	F	5M	42.21	1.44	0.81
A 0048944	7267	3	F	5M	50.04	2.52	1.15
A 0048945	7268	3	F	5M	39.67	1.44	1.19
A 0048946	7269	3	F	5M	45.78	1.80	1.92
A 0048947	7270	3	F	5M	62.71	0.90	1.48
A 0048948	7271	3	F	5M	44.03	1.95	1.01
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 3 +

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A 0048949	7272	3	F	5M	48.87	2.32	1.45
A 0048950	7273	3	F	5M	63.72	2.77	3.21
A 0048951	7274	3	F	5M	27.87	1.50	1.75
A 0048952	7275	3	F	5M	56.73	1.17	2.02
A 0048953	7276	3	F	5M	50.54	2.11	1.28
A 0048954	7277	3	F	5M	70.46	3.20	1.68
A 0048955	7278	3	F	5M	34.91	1.32	0.88
A 0048956	7279	3	F	5M	44.67	1.41	3.61
A 0048957	7280	3	F	5M	42.71	1.90	0.78
A 0048958	7281	3	F	5M	55.15	1.67	1.63
A 0048959	7282	3	F	5M	42.97	2.01	2.18
A 0048960	7283	3	F	5M	57.25	2.01	1.80
A 0048961	7284	3	F	5M	60.82	3.86	4.47
A 0048962	7285	3	F	5M	46.81	2.88	2.01
A 0048963	7286	3	F	5M	29.96	2.00	2.01
A 0048964	7287	3	F	5M	53.39	4.80	2.59
A 0048965	7288	3	F	5M	55.12	2.32	1.50
A 0048966	7289	3	F	5M	61.48	3.30	0.83
A 0048967	7290	3	F	5M	107.66	5.64	0.67
	Mean				53.41	2.273	1.647
	S.D.				19.582	1.053	.882
Group 3							
A 0048968	7291	4	F	5M	51.23	2.70	1.63
A 0048969	7292	4	F	5M	48.55	2.66	4.47
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Page 4 +

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A 0048970	7293	4	F	5M	72.91	2.43	2.58
A 0048971	7294	4	F	5M	40.43	1.19	1.23
A 0048972	7296	4	F	5M	37.57	2.00	2.82
A 0048973	7297	4	F	5M	52.90	3.16	2.86
A 0048974	7298	4	F	5M	26.42	1.11	1.69
A 0048975	7299	4	F	5M	57.49	2.00	2.42
A 0048976	7300	4	F	5M	36.70	2.55	1.77
A 0048977	7301	4	F	5M	52.62	0.82	2.31
A 0048978	7302	4	F	5M	42.86	2.14	2.43
A 0048979	7303	4	F	5M	36.67	1.98	1.66
A 0048980	7304	4	F	5M	40.99	1.50	2.13
A 0048981	7305	4	F	5M	90.56	2.93	2.10
A 0048982	7306	4	F	5M	78.39	1.50	1.86
A 0048983	7307	4	F	5M	99.25	3.44	2.07
A 0048984	7308	4	F	5M	63.69	1.07	2.71
A 0048985	7309	4	F	5M	59.96	1.90	1.79
A 0048986	7310	4	F	5M	38.73	1.91	2.37
A 0048987	7311	4	F	5M	45.86	1.53	2.43
A 0048988	7312	4	F	5M	58.33	2.38	1.41
A 0048989	7313	4	F	5M	76.22	3.36	2.93
A 0048990	7314	4	F	5M	76.69	4.85	2.61
A 0048991	7315	4	F	5M	37.15	1.42	2.06
A 0048992	7316	4	F	5M	55.85	2.41	1.30
A 0048993	7317	4	F	5M	55.04	1.84	1.15
A 0048994	7318	4	F	5M	77.53	1.32	1.75
A 0048995	7319	4	F	5M	91.18	1.99	1.77
A 0048996	7320	4	F	5M	47.04	1.72	1.18
	Mean				56.856	2.131	2.12
	S.D.				18.888	.863	.692

Group 4

	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
Reference Range	50 - 100	3 - 7	.57 - 3.41

Approved ---------- Date 1/21/99

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Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048562	7202	1	M	21D	100.50	2.69	0.98
A 0048563	7204	1	M	21D	89.18	3.84	0.92
A 0048564	7205	1	M	21D	101.51	4.13	0.66
A 0048565	7208	1	M	21D	85.59	4.29	0.66
A 0048566	7210	1	M	21D	95.69	4.11	0.96
A 0048567	7211	1	M	21D	106.35	3.44	0.72
A 0048568	7213	1	M	21D	103.57	3.51	0.71
A 0048569	7214	1	M	21D	117.93	3.13	0.72
A 0048570	7215	1	M	21D	105.83	2.67	0.98
A 0048571	7216	1	M	21D	106.00	2.59	0.80
A 0048572	7217	1	M	21D	99.05	2.93	0.91
A 0048573	7218	1	M	21D	92.89	2.47	1.03
A 0048574	7219	1	M	21D	141.70	2.45	0.69
A 0048575	7223	1	M	21D	116.40	2.40	0.60
A 0048576	7224	1	M	21D	113.68	5.24	0.65
A 0048577	7225	1	M	21D	149.53	2.97	0.60
A 0048578	7226	1	M	21D	135.22	2.87	1.18
A 0048579	7227	1	M	21D	90.18	1.61	0.61
A 0048580	7228	1	M	21D	92.25	3.60	1.23
A 0048581	7229	1	M	21D	83.87	3.67	0.75
	Mean				106.346	3.231	.818
	S.D.				18.27	.839	.193
Group 1							
A 0048582	7231	2	M	21D	114.86	4.92	1.51
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 1 +

ANILYTICS INCORPORATED
200 Girard Street, Suite 200, Gaithersburg, MD 20877
301-921-0168 Fax: 301-977-0433

Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048583	7232	2	M	21D	100.24	3.87	1.14
A 0048584	7233	2	M	21D	118.61	4.24	0.89
A 0048585	7234	2	M	21D	133.63	3.00	1.15
A 0048586	7235	2	M	21D	104.00	3.48	0.43
A 0048587	7236	2	M	21D	81.85	2.46	0.50
A 0048588	7237	2	M	21D	132.30	4.85	1.14
A 0048589	7238	2	M	21D	122.22	3.89	0.88
A 0048590	7239	2	M	21D	92.12	2.91	0.62
A 0048591	7240	2	M	21D	110.85	2.89	0.92
A 0048592	7241	2	M	21D	104.90	4.03	1.04
A 0048593	7242	2	M	21D	93.90	3.65	0.70
A 0048594	7244	2	M	21D	84.44	2.37	1.05
A 0048595	7245	2	M	21D	120.08	4.09	0.66
A 0048596	7246	2	M	21D	124.57	2.86	0.84
A 0048597	7247	2	M	21D	112.34	2.79	0.71
A 0048598	7248	2	M	21D	114.31	4.11	0.83
A 0048599	7249	2	M	21D	107.56	2.53	0.47
A 0048600	7250	2	M	21D	94.54	1.72	0.69
A 0048601	7251	2	M	21D	77.91	3.13	0.65
A 0048602	7252	2	M	21D	119.59	3.08	1.05
A 0048603	7254	2	M	21D	113.14	2.72	1.07
A 0048604	7255	2	M	21D	116.61	4.19	1.09
A 0048605	7256	2	M	21D	95.81	1.84	1.21
A 0048606	7257	2	M	21D	119.63	2.19	0.77
A 0048607	7258	2	M	21D	98.53	3.46	0.83
A 0048608	7259	2	M	21D	108.41	4.02	0.80
	Mean				108.035	3.307	.876
	S.D.				14.633	.859	.255

Group 2

Reference Range	50 - 100	3 - 7	.57 - 3.41

Page 2 +

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905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048609	7262	3	M	21D	107.12	3.79	0.85
A 0048610	7263	3	M	21D	91.66	3.28	0.73
A 0048611	7264	3	M	21D	153.12	2.89	0.66
A 0048612	7265	3	M	21D	146.06	4.97	1.18
A 0048613	7266	3	M	21D	100.73	2.41	0.88
A 0048614	7267	3	M	21D	154.47	4.88	1.81
A 0048615	7268	3	M	21D	116.06	3.08	0.85
A 0048616	7269	3	M	21D	109.14	3.65	1.00
A 0048617	7270	3	M	21D	97.89	3.18	1.01
A 0048618	7271	3	M	21D	136.69	5.49	1.28
A 0048619	7272	3	M	21D	111.19	3.87	0.95
A 0048620	7273	3	M	21D	95.95	4.11	0.62
A 0048621	7274	3	M	21D	121.63	4.78	1.40
A 0048622	7275	3	M	21D	99.74	2.82	0.85
A 0048623	7276	3	M	21D	173.02	4.78	1.30
A 0048624	7277	3	M	21D	119.16	3.87	1.19
A 0048625	7278	3	M	21D	124.09	5.60	0.69
A 0048626	7279	3	M	21D	133.20	2.85	0.93
A 0048627	7280	3	M	21D	111.23	3.96	0.85
A 0048628	7281	3	M	21D	92.79	3.57	0.72
A 0048629	7282	3	M	21D	119.92	3.60	0.91
A 0048630	7283	3	M	21D	97.79	2.98	0.64
A 0048631	7284	3	M	21D	113.99	2.84	1.16
A 0048632	7285	3	M	21D	119.42	4.72	0.52
A 0048633	7286	3	M	21D	129.82	3.66	0.78
A 0048634	7287	3	M	21D	114.40	3.54	1.03
A 0048635	7288	3	M	21D	126.55	4.45	0.82
A 0048636	7289	3	M	21D	130.06	2.62	0.96
	Mean				119.532	3.794	.949
	S.D.				20.083	.881	.277

Group 3

Reference Range	50 - 100	3 - 7	.57 - 3.41

Page 3 +

ANILYTICS INCORPORATED
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Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 01/21/99

Client No. 1028 Study: 1416-001 MA PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048637	7291	4	M	21D	92.49	2.62	1.07
A 0048638	7292	4	M	21D	114.75	4.33	0.95
A 0048639	7294	4	M	21D	102.97	3.77	1.19
A 0048640	7296	4	M	21D	134.42	3.91	1.33
A 0048641	7297	4	M	21D	105.11	2.87	0.83
A 0048642	7298	4	M	21D	137.82	3.20	1.03
A 0048643	7299	4	M	21D	124.73	3.10	1.02
A 0048644	7300	4	M	21D	89.97	4.10	1.15
A 0048645	7301	4	M	21D	86.41	3.16	1.06
A 0048646	7302	4	M	21D	108.06	3.11	0.90
A 0048647	7303	4	M	21D	121.92	4.09	1.15
A 0048648	7304	4	M	21D	77.63	2.68	1.38
A 0048649	7306	4	M	21D	67.73	2.69	1.10
A 0048650	7308	4	M	21D	97.55	3.08	1.07
A 0048651	7309	4	M	21D	102.42	2.76	0.78
A 0048652	7310	4	M	21D	74.53	2.95	1.02
A 0048653	7311	4	M	21D	105.43	3.34	0.90
A 0048654	7312	4	M	21D	74.57	5.12	0.64
A 0048655	7313	4	M	21D	115.28	5.13	0.94
A 0048656	7314	4	M	21D	147.54	1.78	0.92
A 0048657	7315	4	M	21D	108.96	3.49	0.66
A 0048658	7316	4	M	21D	126.16	2.93	0.56
A 0048659	7317	4	M	21D	120.76	4.57	0.92
A 0048660	7318	4	M	21D	135.32	3.71	0.55
A 0048661	7320	4	M	21D	104.83	3.05	0.86
	Mean				107.094	3.422	.959
	S.D.				21.357	.804	.214

Group 4

Reference Range	50 - 100	3 - 7	.57 - 3.41

Approved ----------- Date 1/21/99

Page 4 of 4

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Client: ARGUS RESEARCH LABORATORIES, INC.
905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 02/01/99

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048779	7202	1	F	21D	71.21	2.37	1.29
A 0048780	7204	1	F	21D	92.25	4.33	1.71
A 0048781	7205	1	F	21D	105.29	4.53	0.92
A 0048782	7208	1	F	21D	81.09	3.16	0.98
A 0048783	7210	1	F	21D	97.76	3.92	1.05
A 0048784	7211	1	F	21D	94.40	3.42	0.82
A 0048785	7213	1	F	21D	105.33	3.43	0.92
A 0048786	7214	1	F	21D	126.33	3.39	0.84
A 0048787	7215	1	F	21D	102.86	2.55	0.71
A 0048788	7216	1	F	21D	153.37	3.18	1.02
A 0048789	7217	1	F	21D	115.32	3.99	0.80
A 0048790	7218	1	F	21D	112.92	2.79	1.11
A 0048791	7219	1	F	21D	122.53	2.75	1.14
A 0048792	7223	1	F	21D	119.59	3.10	0.59
A 0048793	7224	1	F	21D	86.83	4.36	1.00
A 0048794	7225	1	F	21D	148.38	2.93	0.61
A 0048795	7226	1	F	21D	127.24	2.53	1.26
A 0048796	7227	1	F	21D	103.46	2.63	0.84
A 0048797	7228	1	F	21D	115.11	4.64	0.49
A 0048798	7229	1	F	21D	86.54	4.03	0.65
	Mean				108.391	3.402	.938
	S.D.				21.091	.724	.284
Group 1							
A 0048799	7231	2	F	21D	124.23	4.47	1.13
Reference Range					50 - 100	3 - 7	.57 - 3.41

Page 1 +

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Date Collected: / /
Date Received: 12/29/98
Date Reported: 02/01/99

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048800	7232	2	F	21D	90.13	3.87	0.86
A 0048801	7233	2	F	21D	134.22	4.28	0.89
A 0048802	7234	2	F	21D	122.20	3.11	1.57
A 0048803	7235	2	F	21D	103.60	2.62	0.55
A 0048804	7236	2	F	21D	96.37	3.51	0.55
A 0048805	7237	2	F	21D	117.51	4.61	1.47
A 0048806	7238	2	F	21D	134.54	4.15	1.21
A 0048807	7239	2	F	21D	101.14	3.18	0.67
A 0048808	7240	2	F	21D	108.97	3.04	1.23
A 0048809	7241	2	F	21D	115.91	3.93	1.29
A 0048810	7242	2	F	21D	108.96	3.97	0.83
A 0048811	7244	2	F	21D	111.13	2.14	0.59
A 0048812	7245	2	F	21D	107.47	3.64	0.98
A 0048813	7246	2	F	21D	99.60	3.54	1.13
A 0048814	7247	2	F	21D	101.86	2.38	0.82
A 0048815	7248	2	F	21D	103.61	3.71	1.14
A 0048816	7249	2	F	21D	112.18	2.28	0.63
A 0048817	7250	2	F	21D	110.41	2.80	0.77
A 0048818	7251	2	F	21D	77.93	2.97	0.65
A 0048819	7252	2	F	21D	105.72	2.86	0.72
A 0048820	7254	2	F	21D	89.93	2.77	1.21
A 0048821	7255	2	F	21D	109.61	3.06	0.73
A 0048822	7256	2	F	21D	106.65	2.07	0.86
A 0048823	7257	2	F	21D	86.54	2.35	0.80
A 0048824	7258	2	F	21D	107.96	3.93	0.51
A 0048825	7259	2	F	21D	111.28	4.82	0.80
	Mean				107.395	3.336	.911
	S.D.				13.002	.787	.29

Group 2

Reference Range	50 - 100	3 - 7	.57 - 3.41

Page 2 +

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905 SHEEHY DRIVE
BUILDING A
HORSHAM, PA 19044-
(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 02/01/99

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048826	7262	3	F	21D	127.23	4.99	1.26
A 0048827	7263	3	F	21D	108.96	4.03	0.70
A 0048828	7264	3	F	21D	111.01	4.81	1.04
A 0048829	7265	3	F	21D	132.06	5.14	1.02
A 0048830	7266	3	F	21D	104.58	3.22	0.96
A 0048831	7267	3	F	21D	136.65	5.39	1.40
A 0048832	7268	3	F	21D	99.80	3.39	1.25
A 0048833	7269	3	F	21D	103.72	4.34	1.00
A 0048834	7270	3	F	21D	89.58	3.96	1.09
A 0048835	7271	3	F	21D	126.14	7.51	0.66
A 0048836	7272	3	F	21D	121.09	5.18	0.97
A 0048837	7273	3	F	21D	107.57	5.25	0.82
A 0048838	7274	3	F	21D	118.71	4.95	1.22
A 0048839	7275	3	F	21D	107.88	3.48	1.02
A 0048840	7276	3	F	21D	112.04	4.54	1.33
A 0048841	7277	3	F	21D	113.88	4.36	1.03
A 0048842	7278	3	F	21D	120.00	3.25	0.61
A 0048843	7279	3	F	21D	143.11	3.16	0.98
A 0048844	7280	3	F	21D	122.42	3.76	0.73
A 0048845	7281	3	F	21D	76.51	4.22	0.75
A 0048846	7282	3	F	21D	82.45	4.22	1.02
A 0048847	7283	3	F	21D	123.00	2.17	0.71
A 0048848	7284	3	F	21D	87.58	3.79	0.89
A 0048849	7285	3	F	21D	135.28	3.95	0.76
A 0048850	7286	3	F	21D	71.19	2.89	1.23
A 0048851	7287	3	F	21D	81.32	3.90	0.94
A 0048852	7288	3	F	21D	87.30	3.27	0.60
A 0048853	7289	3	F	21D	68.90	3.12	0.86
	Mean				107.856	4.151	.959
	S.D.				20.657	1.046	.222

Group 3

Reference Range	50 - 100	3 - 7	.57 - 3.41

Page 3 +

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905 SHEEHY DRIVE
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(215) 443-8710

Date Collected: / /
Date Received: 12/29/98
Date Reported: 02/01/99

Client No. 1028 Study: 1416-001 FE PUPS Species: RAT

Accession No.	Spec. ID	Gp	Sex	Age	T3,TOTAL NG/DL	T4,TOTAL UG/DL	TSH NG/ML
A 0048854	7291	4	F	21D	107.02	2.53	0.87
A 0048855	7292	4	F	21D	109.84	4.52	0.71
A 0048856	7294	4	F	21D	65.90	3.59	1.23
A 0048857	7296	4	F	21D	86.59	4.87	1.22
A 0048858	7297	4	F	21D	60.27	3.85	0.76
A 0048859	7298	4	F	21D	78.69	3.14	0.98
A 0048860	7299	4	F	21D	91.96	3.64	1.11
A 0048861	7300	4	F	21D	92.41	3.83	1.14
A 0048862	7301	4	F	21D	107.16	2.89	1.10
A 0048863	7302	4	F	21D	90.25	3.75	1.20
A 0048864	7303	4	F	21D	85.20	4.17	1.32
A 0048865	7304	4	F	21D	103.42	4.63	1.20
A 0048866	7306	4	F	21D	36.39	2.75	1.09
A 0048867	7308	4	F	21D	109.14	3.31	1.14
A 0048868	7309	4	F	21D	106.20	3.67	0.61
A 0048869	7310	4	F	21D	72.39	3.97	0.90
A 0048870	7311	4	F	21D	96.79	4.01	1.06
A 0048871	7312	4	F	21D	103.13	6.43	0.75
A 0048872	7313	4	F	21D	120.43	3.59	0.83
A 0048873	7314	4	F	21D	127.61	3.17	0.74
A 0048874	7315	4	F	21D	106.92	3.83	0.94
A 0048875	7316	4	F	21D	121.00	3.74	0.53
A 0048876	7317	4	F	21D	129.50	5.10	1.09
A 0048877	7318	4	F	21D	144.74	3.90	0.68
A 0048878	7320	4	F	21D	118.21	2.97	0.96
	Mean				98.846	3.834	.966
	S.D.				23.988	.832	.218

Group 4

Reference Range			
	50 - 100	3 - 7	.57 - 3.41

Approved ---------- Date 2/1/99

Page 4 of 4

APPENDIX L

QUALITY ASSURANCE UNIT FINAL REPORT STATEMENT

PRIMEDICA

Argus Research Laboratories, Inc.
905 Sheehy Drive, Building A
Horsham, PA 19044
Telephone: (215) 443-8710
Telefax: (215) 443-8587

QUALITY ASSURANCE UNIT FINAL REPORT STATEMENT

Study Director: Raymond G. York, Ph.D., DABT

Executive Director of Research: Mildred S. Christian, Ph.D., Fellow, ATS

Protocol 1416-001: Oral (Drinking Water) Two-Generation (One Litter per Generation) Reproduction Study of Ammonium Perchlorate In Rats

The draft protocol for this study was audited for adherence to U.S. Environmental Protection Agency (EPA FIFRA) Good Laboratory Practice Standards, U.S. Environmental Protection Agency (EPA TSCA) Good Laboratory Practice Standards, Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF) Good Laboratory Practice Regulations, and Organization for Economic Cooperation and Development (OECD) Principles of Good laboratory Practice, Environment Monograph No. 45 on 22 DEC 97.

Critical phases of this study were inspected 20 times; study information and raw data were audited five times (see tables 1 and 2 for dates and phases/data).

The draft final report and the raw data for this study were compared and audited for accuracy, for adherence to protocol requirements, and for adherence to U.S. Environmental Protection Agency (EPA FIFRA) Good Laboratory Practice Standards, U.S. Environmental Protection Agency (EPA TSCA) Good Laboratory Practice Standards, Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF) Good Laboratory Practice Regulations, and Organization for Economic Cooperation and Development (OECD) Principles of Good laboratory Practice, Environment Monograph No. 45 between 03 SEP 98 and 11 SEP 98, and 14 JAN 99 and 05 MAR 99, and for revision requested by the Sponsor on 31 MAR 99 and for finalization on 09 APR 99.

This study was conducted according to U.S. Environmental Protection Agency (EPA FIFRA) Good Laboratory Practice Standards, U.S. Environmental Protection Agency (EPA TSCA) Good Laboratory Practice Standards, Japanese Ministry of Agriculture, Forestry and Fisheries (MAFF) Good Laboratory Practice Regulations, and Organization for Economic Cooperation and Development (OECD) Principles of Good laboratory Practice, Environment Monograph No. 45.

Barbara J. Patterson, B.A. Date	Cynthia M. Lyskowski Date
Director of Operations and Compliance	Quality Assurance Auditor and Principal Auditor

TABLE 1

CRITICAL PHASES INSPECTED

Test Substance Administration - Water Consumption

Dates of inspection: 12 JAN 98, 02 JUN 98

Dates results reported to the Study Director and Management: 13 JAN 98, 09 JUN 98

Estrous Cycle Evaluation

Date of inspection: 11 MAR 98

Date results reported to the Study Director and Management: 11 MAR 98

Cohabitation

Dates of inspection: 27 MAR 98, 04 AUG 98,

Dates results reported to the Study Director and Management: 06 APR 98, 07 AUG 98

Natural Delivery/Litter Observations

Dates of inspection: 23 APR 98, 19 AUG 98

Dates results reported to the Study Director and Management: 07 MAY 98, 27 AUG 98

Blood Collection

Dates of inspection: 05 MAY 98, 28 MAY 98, 12 SEP 98, 23 SEP 98

Dates results reported to the Study Director and Management: 07 MAY 98, 01 JUN 98, 21 SEP 98, 05 OCT 98

Necropsy - Dam and Litter Sacrifice

Date of inspection: 05 MAY 98, 16 SEP 98

Date results reported to the Study Director and Management: 18 MAY 98, 24 SEP 98

Weaning

Date of inspection: 07 MAY 98

Date results reported to the Study Director and Management: 18 MAY 98

Physical and Reflex Development - Sexual Maturation

Dates of Inspection: 19 MAY 98, 02 JUN 98

Dates results reported to the Study Director and Management: 19 MAY 98, 09 JUN 98

Necropsy - Male Necropsy

Date of inspection: 28 MAY 98, 23 SEP 98

Date results reported to the Study Director and Management: 02 JUN 98, 05 OCT 98

Sperm Evaluation

Date of inspection: 28 MAY 98, 23 SEP 98

Date results reported to the Study Director and Management: 01 JUN 98, 05 OCT 98

TABLE 2

RAW DATA AUDIT(S)

The following study information and raw data were audited from 09 JUN 98 to 19 JUN 98:

Protocol.
Protocol amendments.
List of personnel and computer operator codes.
Error codes and codes for clinical sign observations.
Animal receipt, randomization, physical examination and acclimation.
In-life transaction record.
Feed consumption.
Water consumption.
Estrous cycle evaluation.
Cohabitation.
Natural delivery observations.
Litter observations.
Pup body weights and status.
Genealogy.
Sperm evaluation.
Necropsy.
Organ weights.
Table of random units.
Tissue packing lists.
Edit requests.
Blood collection data and packing lists.
Key for test facility computer back-up record abbreviations.

The results of this audit were reported to the Study Director and Management on 19 JUN 98.

The following study information and raw data were audited on 07 JUL 98 and 08 JUL 98:

General comments.
Study maintenance records.
Tempscribes.
Feed, water and bedding analyses.
Deviations.

The results of this audit were reported to the Study Director and Management on 08 JUL 98.

The following study information and raw data were audited on 22 OCT 98, 23 OCT 98, 26 OCT 98 to 29 OCT 98, and 02 NOV 98:

In-life transaction record.
Feed consumption.
Water consumption.
Genealogy.
Sperm evaluation.
Necropsy.
Organ weights.
Tissue packing lists.
Edit requests.
Sexual maturation.
Epididymal fluid examination.
Blood collection.

The results of this audit were reported to the Study Director and Management on 03 NOV 98.

The following study information and raw data were audited on 25 OCT 98, 31 OCT 98, 01 NOV 98, and 05 NOV 98:

Test substance receipt, preparation and use.
Test substance packing lists.

The results of this audit were reported to the Study Director and Management on 18 NOV 98.

The following study information and raw data were audited on 05 NOV 98, 06 NOV 98, 09 NOV 98, to 12 NOV 98, 24 NOV 98 and 25 NOV 98:

In-life transaction record.
Feed consumption.
Water consumption.
Estrous cycle evaluation, preadministration and administration.
Cohabitation.
Caesarean-sectioning.
Natural delivery observations.
Litter observations, including reflex and development.
Pup body weights and status.
Necropsy.
Organ weights.
Tissue packing lists.
General comments.
Study maintenance records.
Tempscribes, temperature and relative humidity reports.
Feed, water and bedding analyses.
Edit requests.
Deviations.
Data review page.
Blood collection.

The results of this audit were reported to the Study director and Management on 25 NOV 98.