Microbac Laboratories, Inc.

Scranton Division

Laboratory ID: 1213978

Certificate of Analysis

Tech Law
Gene Nance
2208 Warwood Ave.
Wheeling, WV 26003

Contact: Gene Nance
Project Name: TL01-11-12-001/EPA #EP-S3-10-04
Project / PO Number: 03049.0.001.084.01.RS.A3TA
Date Received: May 24, 2012
Time Received: 12:00 pm

Analytical Testing Parameters

Client Sample ID: **FB23**
Lab Sample ID: **1213978-01**

Collection Date: **5/23/2012**
Collection Time: **1:25 pm**
Collected By: Ex. 4 - CBI

MICROBIOLOGY

Parameter	Result		Units	PQL	Method	Prepared	Analyzed	Analyst
Heterotrophic Plate Count	<1.0	**CPA,A-03**	CFU/ml	1.0	SM 9215B	5/24/2012 1745	5/26/2012 1700	GLF
Total Coliform	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/24/2012 1900	5/25/2012 1910	JB
E. coli	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/24/2012 1900	5/25/2012 1910	JB

Analytical Testing Parameters

Client Sample ID: **HW63**
Lab Sample ID: **1213978-02**

Collection Date: **5/23/2012**
Collection Time: **1:09 pm**
Collected By: Ex. 4 - CBI

MICROBIOLOGY

Parameter	Result		Units	PQL	Method	Prepared	Analyzed	Analyst
Heterotrophic Plate Count	**300**	**CPA,A-03**	CFU/ml	1.0	SM 9215B	5/24/2012 1745	5/26/2012 1700	GLF
Total Coliform	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/24/2012 1900	5/25/2012 1910	JB
E. coli	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/24/2012 1900	5/25/2012 1910	JB

Analytical Testing Parameters

Client Sample ID: **HW63z**
Lab Sample ID: **1213978-03**

Collection Date: **5/23/2012**
Collection Time: **1:10 pm**
Collected By: Ex. 4 - CBI

MICROBIOLOGY

Parameter	Result		Units	PQL	Method	Prepared	Analyzed	Analyst
Heterotrophic Plate Count	**410**	**CPA,A-03**	CFU/ml	1.0	SM 9215B	5/24/2012 1745	5/26/2012 1700	GLF
Total Coliform	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/24/2012 1900	5/25/2012 1910	JB
E. coli	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/24/2012 1900	5/25/2012 1910	JB

Microbac Laboratories, Inc

Scranton Division

Laboratory ID: 1213978

Certificate of Analysis

Definitions:

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- **A-03:** This sample was analyzed outside the EPA recommended holding time.

Report Comments:

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Reviewed and Approved By: Ex. 4 - CBI

Date Reviewed and Approved: 6/11/2012

For any feedback concerning our services, please contact Ex. 4 - CBI *You may also contact both* Ex. 4 - CBI

Please help us in meeting our Go Green initiative by selecting to have reports and invoices submitted via email only. Please contact Ex. 4 - CBI to set up email reporting and invoicing options.

1213978

USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-052312-163438-0258

DateShipped: 5/24/2012
CarrierName: Courier for Ex. 4 - CBI
AirbillNo:

Case #: 11-12
Cooler #: 286

Lab: Northeastern Environmental Labs
Lab Contact:
Lab Phone: 570.348.0775

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB23	Aqueous/Ex. 4 - CBI Ex. 4 - CBI	Grab	Bacteria(14)	23488 (Na2S2O3/ 125mlSterilePoly) (1)	FB23	05/23/2012 13:25	
HW63	Drinking Water/ Ex. 4 - CBI	Grab	Bacteria(14)	23435 (Na2S2O3/ 125mlSterilePoly) (1)	HW63	05/23/2012 13:09	
HW63z	Drinking Water/ Ex. 4 - CBI	Grab	Bacteria(14)	23461 (Na2S2O3/ 125mlSterilePoly) (1)	HW63	05/23/2012 13:10	

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: Bacteria=17-Bacteria - Fecal & Total Coliform, HPC

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
3	Ex. 4 - CBI	5/24/12							Ex. 4 - CBI	5/24/12	12:00

Ex. 4 - CBI

Method: SM 9215B **Matrix: Water**

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052454

Lab Number	Analysis	Computed Result	0.0 ~~0.01~~	0.1 ~~0.1~~	1.0	Source	Sample Name	Client	Project Type
1213978-01	HPC, Water SM 9215B	<1	0	0	0		FB23	Tech Law	Microbiology
1213978-02	HPC, Water SM 9215B	300	2	30	TNTC		HW63	Tech Law	Microbiology
1213978-03	HPC, Water SM 9215B	410	5	41	TNTC		HW63z	Tech Law	Microbiology
2052454-BLK1	QC	—	—	—	—	JB	5 26-12 N/A Blank		
2052454-BS1	QC	—	—	—	—		LCS		
2052454-DUP1	QC		0	0		1213978-01	Duplicate		

Reagents/Supplies

Reagent	Description	Expires
V001023	1 ml tips AUTOCLAVED	11/07/2012 00:00
V001132	R2A Agar Plates	06/06/2012 00:00
V001137	DISPOSABLE INOCULATION LOOP, 10ul	11/19/2017 00:00

Standards

Standard	Description	Expires	Lot Number

5-24-12 1745 DW35.0°C Ex. 4 - CBI
Incubator In Date/Time Incubator ID Analyst

5-26-12 1700 Ex. 4 - CBI
Incubator Out Date/Time Analyst

5-27-12 JB
Entered

5-27-12 Ex. 4 - CBI
2nd Review

Secondary Step

Incubator In Date/Time Incubator ID Analyst

Incubator Out Date/Time Analyst

Method: SM 9223B Matrix: Water

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052468

Lab Number	Analysis	TC Result MPN	Large Well+	Small Well+	E.coli Result MPN	Large Well+	Small Well+	Res Cl	Final (mL)	Client	Project Type
[redacted]											
1213978-01	Coliforms, SM 9223B	<1	0		<1	0			100	Tech Law	Microbiology
1213978-02	Coliforms, SM 9223B	<1	0	5-25-12	<1	0	5-25-12		100	Tech Law	Microbiology
1213978-03	Coliforms, SM 9223B	<1	0		<1	0			100	Tech Law	Microbiology
[redacted]											

5-24-12 19:00 W35.0°C Ex. 4 - CBI
Incubator In Date/Time Incubator ID Analyst

5-25-12 1910 Ex. 4 - CBI
Incubator Out Date/Time Analyst

5-27-12 Ex. 4 - CBI
Entered

5-27-12 Ex. 4 - CBI
2nd Review

Method: SM 9223B Matrix: Water

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052468

Lab Number	Analysis	TC Result MPN	Large Well+	Small Well+	E.coli Result MPN	Large Well+	Small Well+	Res Cl	Final (mL)	Client	Project Type

Reagents/Supplies

Reagent	Description	Expires
V001030	COLILERT 24 hr	03/24/2013 00:00
V001031	QUANTI-TRAY 51 well	03/01/2015 00:00

Standards

Standard	Description	Expires	Lot Number

Incubator In Date/Time Incubator ID Analyst

Incubator Out Date/Time Analyst

Entered

2nd Review

Microbac Laboratories, Inc.

Scranton Division

Laboratory ID: 1213584

Certificate of Analysis

Tech Law
Gene Nance
2208 Warwood Ave.
Wheeling, WV 26003

Contact: Gene Nance
Project Name: TL01-11-12-001/EPA #EP-S3-10-04
Project / PO Number: 03049.0.001.084.01.RS.A3TA
Date Received: May 22, 2012
Time Received: 3:00 pm

Analytical Testing Parameters

Client Sample ID: **FB22**
Lab Sample ID: **1213584-01**

Collection Date: **5/22/2012**
Collection Time: **11:58 am**
Collected By: client

MICROBIOLOGY

Parameter	Result		Units	PQL	Method	Prepared	Analyzed	Analyst
Heterotrophic Plate Count	<1.0	**CPA,A-03**	CFU/ml	1.0	SM 9215B	5/23/2012 1245	5/25/2012 1400	JB
Total Coliform	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1235	5/24/2012 1605	JB
E. coli	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1235	5/24/2012 1605	JB

Analytical Testing Parameters

Client Sample ID: **HW64**
Lab Sample ID: **1213584-02**

Collection Date: **5/22/2012**
Collection Time: **11:10 am**
Collected By: client

MICROBIOLOGY

Parameter	Result		Units	PQL	Method	Prepared	Analyzed	Analyst
Heterotrophic Plate Count	**300**	**CPA,A-03**	CFU/ml	1.0	SM 9215B	5/23/2012 1245	5/25/2012 1400	JB
Total Coliform	**>200**	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1235	5/24/2012 1605	JB
E. coli	**8.0**	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1235	5/24/2012 1605	JB

Analytical Testing Parameters

Client Sample ID: **HW64-P**
Lab Sample ID: **1213584-03**

Collection Date: **5/22/2012**
Collection Time: **11:40 am**
Collected By: client

MICROBIOLOGY

Parameter	Result		Units	PQL	Method	Prepared	Analyzed	Analyst
Heterotrophic Plate Count	**1100**	**CPA,A-03**	CFU/ml	1.0	SM 9215B	5/23/2012 1245	5/25/2012 1400	JB
Total Coliform	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1235	5/24/2012 1605	JB
E. coli	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1235	5/24/2012 1605	JB

Microbac Laboratories, Inc

Scranton Division

Laboratory ID: 1213584

Certificate of Analysis

Definitions:

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- **A-03:** This sample was analyzed outside the EPA recommended holding time.

Report Comments:

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Reviewed and Approved By: Ex. 4 - CBI

Date Reviewed and Approved: 6/11/2012

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Please help us in meeting our Go Green initiative by selecting to have reports and invoices submitted via email only. Please contact Ex. 4 - CBI to set up email reporting and invoicing options.

1620 North Main Avenue
Scranton, PA 18508

www.microbac.com

Phone: 570-348-0775
Fax: 570-347-4139

Method: SM 9223B Matrix: Water

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052312

Lab Number	Analysis	TC Result MPN	Large Well+	Small Well+	E.coli Result MPN	Large Well+	Small Well+	Res Cl	Final (mL)	Client	Project Type
[redacted]											
1213584-01	Coliforms, SM 9223B	<1	0	/	<1	0	/	NEG	100	Tech Law FB22	Microbiology
1213584-02	Coliforms, SM 9223B	>200	51	/	8	7	/	NEG	100	Tech Law HW64	Microbiology
1213584-03	Coliforms, SM 9223B	<1	0	/	<1	0	/	NEG	100	Tech Law HW64P	Microbiology
[redacted]											

5-23-12 12:35 W35.0°C Ex. 4 - CBI
Incubator In Date/Time Incubator ID Analyst

5-24-12 1605 Ex. 4 - CBI
Incubator Out Date/Time Analyst

5-24-12 Ex. 4 - CBI
Entered

5-24-12 Ex. 4 - CBI
2nd Review

Method: SM 9223B Matrix: Water

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052312

Lab Number	Analysis	TC Result MPN	Large Well+	Small Well+	E.coli Result MPN	Large Well+	Small Well+	Res Cl	Final (mL)	Client	Project Type
[redacted]											

Reagents/Supplies

Reagent	Description	Expires
V001030	COLILERT 24 hr	03/24/2013 00:00
V001031	QUANTI-TRAY 51 well	03/01/2015 00:00

Standards

Standard	Description	Expires	Lot Number

Incubator In Date/Time Incubator ID Analyst

Incubator Out Date/Time Analyst

Entered

2nd Review

Method: SM 9215B **Matrix: Water**

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052328

Lab Number	Analysis	Computed Result	0.1	1.0	Cl - Check	Source	Sample Name	Client	Project Type
1213584-01	HPC, Water SM 9215B	<1	1	0	NEG		FB22	Tech Law	Microbiology
1213584-02	HPC, Water SM 9215B	3000	30	TNTC	NEG		HW64	Tech Law	Microbiology
1213584-03	HPC, Water SM 9215B	1100	110	TNTC	NEG		HW64-P	Tech Law	Microbiology
2052328-BLK1	QC	1					Blank		
2052328-BS1	QC	95					LCS		
2052328-DUP1	QC	<1	0	0	NEG	1213584-01	Duplicate		

Reagents/Supplies

Reagent	Description	Expires
V001023	1 ml tips AUTOCLAVED	11/07/2012 00:00
V001132	R2A Agar Plates	06/06/2012 00:00

Standards

Standard	Description	Expires	Lot Number

5-23-12 17:45 W35.0°C Ex. 4 - CBI
Incubator In Date/Time Incubator ID Analyst

5-25-12 1400 Ex. 4 - CBI
Incubator Out Date/Time Analyst

5-27-12 Ex. 4 - CBI
Entered

5-27-12 Ex. 4 - CBI
2nd Review

Microbac Laboratories, Inc.

Scranton Division

Laboratory ID: 1213687

Certificate of Analysis

Tech Law
Gene Nance
2208 Warwood Ave.
Wheeling, WV 26003

Contact: Gene Nance
Project Name: TL01-11-12-001/EPA #EP-S3-10-04
Project / PO Number: 03049.0.001.084.01.RS.A3TA
Date Received: May 23, 2012
Time Received: 2:27 pm

Analytical Testing Parameters

Client Sample ID: **HW62**
Lab Sample ID: **1213687-01**

Collection Date: **5/22/2012**
Collection Time: **3:59 pm**
Collected By: Ex. 4 - CBI

MICROBIOLOGY

Parameter	Result		Units	PQL	Method	Prepared	Analyzed	Analyst
Heterotrophic Plate Count	**300**	**CPA**	CFU/ml	1.0	SM 9215B	5/23/2012 1550	5/25/2012 1840	Ex. 4 - CBI
Total Coliform	**200**	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1750	5/24/2012 1900	
E. coli	<1.0	**CPA**	CFU/100 ml	1.0	SM 9223B	5/23/2012 1750	5/24/2012 1900	

Definitions:

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Report Comments:

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Reviewed and Approved By: Ex. 4 - CBI

Date Reviewed and Approved: 6/11/2012

For any feedback concerning our services, please contact Cherie Gudz, the Laboratory Director at 570.348.0775. You may also contact both James Nokes, President at president@microbac.com and Sean Hyde, Chief Operating Officer at sean.hyde@microbac.com.

Please help us in meeting our Go Green initiative by selecting to have reports and invoices submitted via email only. Please contact Ex. 4 - CBI to set up email reporting and invoicing options.

Techlaw

USEPA CLP Generic COC (LAB COPY)

DateShipped: 5/23/2012

CarrierName: Courier for Northeastern

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 11-12

No: 3-052312-093154-0248

Lab: Northeastern Environmental Labs

Lab Contact:

Lab Phone: 570.348.0775

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
HW62	Drinking Water/ Ex. 4 - CBI	Grab	Bacteria(14)	23336 (Na2S2O3/ 125mlSterilePoly) (1)	HW62	05/22/2012 15:59	

1213687

~~Sample(s) to be used for Lab QC: HW62~~ BB

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Bacteria=17-Bacteria - Fecal & Total Coliform, HPC

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
1	Ex. 4 - CBI	5/23/12							Ex. 4 - CBI	5/23/12	12:30

Method: SM 9223B **Matrix: Water**

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052362

Lab Number	Analysis	TC Result MPN	Large Well+	Small Well+	E.coli Result MPN	Large Well+	Small Well+	Res Cl	Final (mL)	Client	Project Type
[redacted]											
1213687-01	Coliforms, SM 9223B	200	50	5/5	<1	0	5/5	NEG	100	Tech Law	Microbiology

Reagents/Supplies

Reagent	Description	Expires
V001030	COLILERT 24 hr	03/24/2013 00:00
V001031	QUANTI-TRAY 51 well	03/01/2015 00:00

Standards

Standard	Description	Expires	Lot Number

5-23-12 17:50 W350.02 Ex. 4 - CBI
Incubator In Date/Time Incubator ID Analyst

5-24-12 1900 Ex. 4 - CBI
Incubator Out Date/Time Analyst

5-24-12 Ex. 4 - CBI
Entered
5-24-12
2nd Review

Method: SM 9215B **Matrix: Water**

MICROBIOLOGY PREPARATION BATCH SHEET
Microbac Laboratories, Inc., Central Pennsylvania

2052359

Lab Number	Analysis	Computed Result	0.1	1.0	Cl - Check	Source	Sample Name	Client	Project Type
1213687-01	HPC, Water SM 9215B	300	30		NEG		HW62	Tech Law	Microbiology
2052359-BLK1	QC	0					Blank		
2052359-BS1	QC	148					LCS		
2052359-DUP1	QC	320	32		NEG	1213687-01	Duplicate		

Reagents/Supplies

Reagent	Description	Expires
V001023	1 ml tips AUTOCLAVED	11/07/2012 00:00
V001132	R2A Agar Plates	06/06/2012 00:00

Standards

Standard	Description	Expires	Lot Number

5-23-12 15:50 W35.0°C Ex. 4 - CBI
Incubator In Date/Time Incubator ID Analyst

5-25-12 18 40 Ex. 4 - CBI
Incubator Out Date/Time Analyst

5-27-12 Ex. 4 - CBI
Entered

5-27-12 Ex. 4 - CBI
2nd Review

Microbac Laboratories, Inc. Central PA - Weekly Micro Temperature Logs Week of 5-21-12 -

Refrigerators/Incubators

	Temp Range	Temp Adj	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		°C	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
M1 Top	1 to 4°C	- 0.1	2.8	2.3	B	B	2.8	3.9	3.9	4.0	3.5	3.9				
M1 Bottom	1 to 4°C	- 0.5	2.3	2.7	B	B	2.7	3.0	3.2	3.5	2.8	3.5				
M2 Top	1 to 4°C	0.0	2.2	1.1	B	B	1.5	4.0	3.2	1.1	2.0	1.2				
M2 Bottom	1 to 4°C	0.0	3.5	3.0	B	B	2.9	3.0	4.3 (E)	3.2	3.8	3.0				
M3 Top	1 to 4°C	- 0.4	4.0	4.0	B	B	4.0	4.0	4.0	4.0	4.0	4.0				
M3 Bottom	1 to 4°C	0.0	3.0	3.0	B	B	3.0	2.9	3.0	3.0	3.0	3.0				
M5 Top	1 to 4°C	- 0.5	3.0	3.0	B	B	2.5	3.9	3.0	3.0	2.5	4.0				
M5 Bottom	1 to 4°C	0.0	2.5	3.0	B	B	3.0	4.0	3.0	2.8	3.0	3.9				
M6 Top	1 to 4°C	- 0.2	2.3	2.5	B	B	0.9	2.9	2.0	2.3	1.7	1.6				
M7	1 to 4°C	+ 0.1	2.3	2.2	B	B	2.9	2.1	2.2	4.0	2.7	3.1				
M8	-15 to -25°C	- 0.7	-23	-23	B	B	-23	-22	-23	-22	-22	-21				
D.W 35°C Top	35C +/- 0.5C	- 0.3	35.0	34.5	B	B	34.9	33.2 (D)	34.5	33.8 (E)	34.5	34.5				
D.W 35°C Bottom	35C +/- 0.5C	- 0.3	35.4	33.2 (E)	B	B	35.4	33.3 (D)	34.7	33.8 (E)	34.9	34.6				
Food 35°C Top	35C +/- 1.0C	0.0	36.0	35.9	B	B	36.2 (C)	35.0	35.7	35.4	35.5	34.4				
Food 35°C Bottom	35C +/- 1.0C	0.0	35.9	35.8	B	B	36.4 (C)	35.0	35.7	35.1	36.0	35.3				
Yeast & Mold 25°C	22C - 27C	- 0.7	24.0	24.1	B	B	24.0	23.3	24.0	24.0	24.0	24.9				
Food Incubator (Path) 37°C	37C +/- 1C	0.0	37.8	37.6	B	B	37.9	37.5	37.6	37.0	38.0	37.5				
SANYO 42.0°C	42C +/-1C	- 1.1	42.0	41.8	B	B	41.8	42.0	42.0	37.2 (E)	42.0	42.0				
Water Bath 44.5°C	44.5C +/- .2C	- 0.1	N/U	N/U	B	B	N/U	N/U	44.3	44.5	44.5	N/U				
Fecal Incubator 44.5°C	44.5C +/- .2C	0.0	Pass	Pass	B	B	Pass	Pass	Pass	Pass	Pass	Pass				
BT Sure	55C - 60C	- 1.2	57.1	57.3	B	B	57.3	57.3	57.3	57.3	57.3	57.3				
Analyst Initials			GLF	GLF	B	B	GLF	GLF	GLF	GLF	GLF	GLF				

Comments: N/U = Not In Use B.) analyst out of lab 5-23-12 GLF (D) samples added 5-23-12 GLF
(E) samples added GLF 5-21-12 (C) temp reduced 5-23-12 GLF (E) samples added/removed 5-24/12 GLF

Form ML17001-4

Microbac Laboratories, Inc. - Central Pennsylvania Division

Autoclave Sterilization Record

Date	Items Sterilized	Start up Time	Pressure Reading (PSI)	Temp. Reading °C (exterior)	Length of Time at Temp.	Time Remvd	Cycle Time in Autoclave	Indicator Tape (black=OK)	Sterility Check (weekly) POS(color)	NEG	MRT Temp. Check °C (read cool)	Auto-clave A / B	BT Sure Time Out	Analyst
5-15-12	WASTE	2140	15	121	45min	0950	12H10m	Black	—	—	121.0°C	B	—	GLF
5-16-12	FUNNELS	0955	15	121	15	1200	125min	Black	MODIGM YELLOW	PURPLE	121.0C	B	5-17-12 1200	JB
5-16-12	Lost spp. paper V001093	1215	15	121	15	1300	45min	Black	—	—	121.0C	B	—	GLF
5-16-12	Waste	2015	15	121	45min	1200	15H45M	BLACK	—	—	121.0°C	B	—	GLF
5-17-12	FUNNELS	1200	15	121	15	1245	45min	Black	—	—	121.0C	B	—	JB
5-17-12	Waste	1820	15	121	45min	1945	85min	BLACK	—	—	121.0°C	B	—	GLF
5-18-12	FUNNELS	1005	15	121	15	1110	65min	BLACK	—	—	121.0°C	B	—	JB
5-19-12	WASTE	1530	15	121	30	1630	60min	Black	—	—	121.0°C	B	—	TR
5-21-12	Funnels	1250 GLF ~~1350~~ 5-21-12	15	121	15	1335	85min	Black	—	—	121.0°C	B	—	GLF
5-21-12	BRW	19:50	15	121	30	1010	14H20m	BLACK	—	—	121.0°C	B	—	JB
5-22-12	FUNNELS	10:55	15	[illegible]	15	12:00	65min	BLACK	—	—	121.0°C	B	—	JB
5-23-12	FUNNELS	09.00	15	121	15	11:10	130min	BLACK	MODIGM YELLOW	PURPLE	121.0°C	B	5-24-12 11:25	JB
5-23-12	RZA Agar	11:35	15	121	15	1200	25min	BLACK	—	—	121.0°C	B	—	JB
5-23-12	V001138 Sterile DI water	15.45	15	121	30	17:40	115min	Black	—	—	121.0°C	B	—	SMD
5-23-12	Sub pipet tips V001142	17:40	15	121	30	1945	125min	Black	—	—	121.0C	B	—	SMD
5-24-12	FUNNELS	11:25	15	121	15	1325	120min	Black	—	—	121.0C	B	—	JB
5-24-12	Waste	1905	15	121	45min	1145	10H40m	BLACK	—	—	121.0°C	B	—	GLF
5-25-12	FUNNELS	1150	15	121	15	1225	35min	BLACK	—	—	121.0°C	B	—	JB
5-25-12	Pipet tips V001148	1735	15	121	20min	1830	55min	Black	—	—	121.0C	B	—	GLF
5-29-12	FUNNELS	0950	15	121	15	1020	30min	BLACK	MODIGM YELLOW	PURPLE	121.0°C	B	5-30-12 11:00	JB
5-29-12	DRW	1155	15	121	15	1230	35min	Black	—	—	121.0°C	B	—	GLF
5-29-12	FUNNELS	1815	15	121°	15	11:00	17H45m	BLACK	—	—	121.0°	B	—	JB

Form ML17003-1

Colilert Lot QC

Lot #	Date/Time In	Date/Time Out	Blank	Pseudo	Entero	E.coli	Analyst	
6F724	2/7/11 2100	2/8/12100	NG	NG	Yellow, No Glow	Yellow, Glow	Ex. 4 - CBI	
Moo161	7/13/11 1600	7/15/11 1600	NG	NG	Yellow No Glow >2400	Yellow Glow 920 MPN		
Quantitray 905298 Colilert 18 Moo160	8/30/11 1415	8/31/11 1430	NG	NG	Klebsiella yellow	Yellow fluoresce		
Colilert 18 moo160	8/30/11 1415	8/31/11 1215	NG	NG	yellow	Yellow fluoresce		
Y000371	10/28/11 1515	10-29-11 1515	NG	NG	B YELLOW	HEYELLOW FLUORESCE		
V001241	11-17-11 11:05	11-18-11 13:00	NG	NG	YELLOW	YELLOW FLUORESCE		
V001414	12-13-11 11:30	12-14-11 12:30	NG	NG	YELLOW	YELLOW FLUORESCE		PH
V001476	12-29-11 16:45	12-30-11 16:55	NG	NG	YELLOW	YELLOW FLUORESCE		1/10/12 PH=7.22
V000183	2-8-12 16:10	2-9-12 17:00	NG	NG	YELLOW	YELLOW FLUORESCE		7.27
V000451	2-21-12 15:45	2-22-12 17:05	NG	NG	YELLOW	YELLOW FLUORESCE		7.19
V000522	SAME LOT AS V000451		JB 3-5-12					
V000714	SAME LOT AS V000451 + V000522				JB 3-29-12			
V000715	2-29-12 17:10	3-1-12 17:10	NG	NG	YELLOW	YELLOW FLUORESCE		7.20
V000904	SAME LOT AS V000715		JB 4-24-12					
V001030	5-8-12 16:15	5-9-12 17:00	NG	NG	YELLOW	YELLOW FLUORESCE		7.27
V001128	SAME LOT AS V001030		JB 5-29-12					
V001239	SAME LOT AS V001030 + V001128				JB 6-14-12			

STARTED DOING PH ON IDEXX COLILERT MEDIA EX. 4 - CBI 12-2011

Water Micro Media Quality Control Record

Media Unique Identifier	Date QC Started / Initials	Final pH	Sterility Blank	Positive Control: Organism	Positive Control: Result	Negative Control: Organism	Negative Control: Result	Date Completed / Initials
M-ENDO V001015	5-7-12	7.34	NG	Ecoli	TYP. 60CFU	STAPH	NG	5-8-12 JB
MFC V001021	5-7 G	7.53	NG	Ecoli	Typical 15	Enter	NG	5-8-12 GLF
m-ENDO V001100	5	7.17	NG	Ecoli	TYP. 66CFU	staph	NG	5-27-12 JB
M-FC V001123	5	7.59	NG	Ecoli	TYP 72 CFU	ENT.	NG	5-27-12 JB
RZA V001132	5	7.12	NG	Ecoli	TYP. 95CFU	JB 5-28-12 N/A		5-27-12 JB
M-ENDO V001186	5	7.18	NG	Ecoli	Typical 73CFU	STAPH	NG	5-27-12 JB
M-ENDO V001146	5-25-12	7.29	NG	Ecoli	TYP. 88CFU	STAPH	NG	5-27-12 JB
M-ENDO V001165	6 2 G	7.20	NG	Ecoli	Typical 56 CFU	staph	NG	6-2-12 GLF
M-FC V001178	6 2	7.52	NG	Ecoli	Typical 27 CFU	ENT	ATYPICAL	6-2-12 GLF
M-ENDO V001180	2	7.15	NG	Ecoli	Typical 57CFU	staph	NG	6-6-12 GLF
SMA V001198	6-6-12	6.91	NG	Ecoli	TYPICAL 108 CFU	6-6-12 GLF NA		6-6-12 JB

Ex. 4 - CBI

Form ML-17008-1 Page _____ of _____ pages Reviewed by: _____ Date: _____

Ex. 4 - CBI

BRW QC

QUALITY CONTROL CERTIFICATE

Colilert®

Product and Company Contact Information

Product Catalog Number: WP200I
Part Number: 98-12973-00

Lot Number: CH446
Expiration date: 24 March 2013
Store At: 2-30 °C

Technical Support Inquiries:
1-207-556-4496
1-800-321-0207 (US/CAN)
00-800-4339-9111 (Europe)
Email: water@idexx.com

Manufacturer:
IDEXX Laboratories, Inc.
One IDEXX Drive
Westbrook, ME 04092 USA
Fax: 1-207-556-4630
idexx.com/water

Physical Properties

		Results
Powder Appearance	White to off-white, free flowing, granulated powder, free of foreign particles.	Passed
pH	Tested for pH range 7.0 - 7.6	Passed

Product Performance

Representative samples of this lot have been tested with the organisms listed below. Ten samples per organism are incubated at 35 ± 0.5 °C with reads at 24 hours for target organisms and 28 hours for non-target organisms. The inoculum level for target bacteria is approximately 20-50 cfu/100mL. Quantitative testing is performed on all target organisms using IDEXX Quanti-Tray MPN compared to spread plate counts using Tryptic Soy Agar with 5% Sheep's Blood.

Target Bacteria	P/A Result	Quantitative Result
Escherichia coli ATCC 25922	Yellow color change and fluorescence ≥ comparator	Confirmation plate counts within 95% confidence limits of Quanti-Tray MPN
Klebsiella pneumoniae ATCC 31488	Yellow color change ≥ comparator, no fluorescence	Confirmation plate counts within 95% confidence limits of Quanti-Tray MPN
Citrobacter freundii ATCC 8090	Yellow color change ≥ comparator, no fluorescence	Confirmation plate counts within 95% confidence limits of Quanti-Tray MPN

Non-Target Bacteria	P/A Result
Pseudomonas aeruginosa ATCC 10145	No color change, no fluorescence at inoculation level of approximately 20,000 cfu/mL.

Coliform-free Lot has been subjected to gamma irradiation. In accordance with ISO 11137-02, post-irradiated product has a minimum sterility assurance level (SAL) of 10^{-3} for coliforms.

This product was performance tested and has met all quality control specifications required for release.
This information is released by IDEXX Quality Assurance:

Name: Tom Bannen, Quality Assurance Specialist

Signature: Tom Bannen

frm-QA-091_A, CO #059703, Effective Date: 01/23/2012

Friday, April 20, 2012

IDEXX
ISO 9001:2008 CERTIFIED

BD
Becton Dickinson and Company
BD Diagnostic Systems
PO Box 999
Sparks MD 21152-0999 US

Certificate of Analysis

Product Name : BOTTLE R2A AGAR 100G
Catalog Number : 218262 **Manufacture Date** : 2011/07/20
Batch Number : 1220412
Expiration Date : 2016/06/30

01. Dehydrated Medium Appearance: Light beige, free-flowing, homogeneous. May contain a small amount of small black particles.
02. Solubility: 1.82% solution, soluble in distilled or deionized water on boiling
03. Solution Appearance: Light amber, very slightly to slightly opalescent with slight precipitation
04. Cultural Response: Medium was prepared per label instructions. Plates were inoculated with the following cultures using the spread plate method. Plates were incubated at 35 ± 2°C for 42-48 hours. Recovery was typical; comparable to an approved control lot.

CULTURE	ATCC®	RESULT
Enterococcus faecalis	29212	Growth
Escherichia coli	25922	Growth
Pseudomonas aeruginosa	27853	Growth
Staphylococcus aureus	25923	Growth

Characteristic	Unit	Value	LowLimit	HighLimit
pH at 25°C :		7.3	7.0	7.4
Bulk Lot Number:	-	1194523		

Animal Source	Country of Origin	Tissue Category BIC	SIC	ABC
Porcine	USA	II	II	IB
Bovine	New Zealand	IV	IV	MLK

The Batch Number on this certificate is synonymous with the Lot Number shown on the product label.

BD Diagnostic Systems (BDDS) is an ISO 13485:2003 and ISO 9001:2008 Registered facility. BDDS products are manufactured in facilities registered with the United States Food and Drug Administration (FDA), and are regulated by the FDA's Quality System Regulations (QSRs). This product met BDDS stringent quality standards at time of batch/lot release. Any test results reported on this certificate were obtained at time of release.

BD Diagnostic Systems' Certificates of Analysis (COA) typically are set up to contain animal origin information for finished products

Creation Date: 2011/08/16 13:40:06

BD
Becton Dickinson and Company
BD Diagnostic Systems
PO Box 999
Sparks MD 21152-0999 US

Certificate of Analysis

Product Name : BOTTLE R2A AGAR 100G
Catalog Number : 218262 **Manufacture Date** : 2011/07/20
Batch Number : 1220412
Expiration Date : 2016/06/30

manufactured using materials of animal origin. The animal origin information may be contained in the animal source table and/or in one or more of the additional paragraphs found on the COA. This information is a compilation of animal origin data from the individual lots of raw materials used to manufacture the batch of BD Diagnostic Systems (BDDS) finished product for which the COA was created.

At the time the BDDS Certificate of Analysis is created and sent to the Internet website address at http://www.bd.com/regdocs/, the animal origin information as provided to BDDS by its suppliers is pulled into the certificate as it is created by the BDDS automated certificate system.

At times, suppliers notify BDDS of new and/or additional information they have received from their raw material suppliers that modifies the animal origin information for lots previously provided to BDDS. When this situation occurs, BDDS updates the animal origin information in the automated certificate system, recreates the affected finished product COAs for batches within expiration date, and sends them to the Internet website where they replace the prior certificate and are immediately available to customers.

Customers enrolled in BD Diagnostic Systems' Automated Change Notification Program will be notified of the changes described above.

For complete details refer to "BD Position Statement - BD Diagnostic-Diagnostic Systems, COA Animal Origin Information Position Statement", located on the Internet website address at http://www.bd.com/regdocs/.

Ex. 4 - CBI

Creation Date: 2011/08/16 13:40:06