DIMOCK Microbiology Data Validation Checklist

Week 1 / Sample Batch 1

SM9222B + 9221E (EC Broth) ---- Total and Fecal Coliforms

DR 2/9/12

QC	FB01	FB02	FB03	FB04	FB05			
Holding Time ~~8~~ 30 Hours DR	✓	✓	✓	✓	✓			
Transport Temperature < 10°C	5.8°C	5.2°C	5.0°C	No Temp. on COC	No Temp. on COC.			
Incubation Time	✓	✓	✓	✓	✓			
Incubation Temperature	✓	✓	✓	✓	✓			
Field Blanks	N/A	N/A	N/A	N/A	N/A			
	← These ARE field blanks →							
Method Blanks	✓	✓	✓	✓	✓			
Media Positive Control	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)			
Lab Reagent Water QC	✓	✓	✓	✓	✓			

✓ = acceptable

(u) = unacceptable (Re Ent. aerog. pos. control:

DIMOCK Microbiology Data Validation Checklist
SM9222B + 9221E (EC Broth) ---- Total and Fecal Coliforms

Week 1 / Sample Batch 1

DR 2/9/12

QC	HW01	HW02	HW02z	HW04	HW05	HW06	HW08a	
Holding Time 30 ~~18~~ Hours DR	✓	✓	✓	✓	✓	✓	✓	
Transport Temperature < 10°C	5.0°C	5.0°C	5.0°C	5.2°C	No Temp. on CoC	No Temp. on CoC	5.0°C	
Incubation Time	✓	✓	✓	✓	✓	✓	✓	
Incubation Temperature	✓	✓	✓	✓	✓	✓	✓	
Field Blanks	✓	✓	✓	✓	✓	✓	✓	
Method Blanks	✓	✓	✓	✓	✓	✓	✓	
Media Positive Control	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	E. coli ✓ Ent. aerog. (u)	
Lab Reagent Water QC	✓	✓	✓	✓	✓	✓	✓	

✓ = acceptable
(u) = unacceptable (Ent. aerog. pos. control data? Analyst error?)

DIMOCK Microbiology Data Validation Checklist

SM9222B + 9221E (EC Broth) ---- Total and Fecal Coliforms

Week 1 / Sample Batch 1

QC	HW12	HW14	HW14-P	HW17	HW19	HW19-P	HW24	HW24-P
Holding Time ~~8~~ 30 Hours	✓	✓	✓	✓	✓	✓	✓	✓
Transport Temperature < 10°C	No Temp. on COC.	No Temp. on COC	No Temp. on COC	No Temp. on COC	5.8 °C	5.2 °C	No Temp. on COC	No Temp. on COC.
Incubation Time	✓	✓	✓	✓	✓	✓	✓	✓
Incubation Temperature	✓	✓	✓	✓	✓	✓	✓	✓
Field Blanks	✓	✓	✓	✓	✓	✓	✓	✓
Method Blanks	✓	✓	✓	✓	✓	✓	✓	✓
Media Positive Control	E.coli (E.c.) (u) Ent. aerog (Ea.)	E.c. (u) E.a.	E.c (u) Ea.	E.c (u) E.a.	E.c. (u) E.a.	Ec. (u) E.a.	E.c. (u) E.a.	E.c. (u) E.a.
Lab Reagent Water QC	✓	✓	✓	✓	✓	✓	✓	✓

DIMOCK Microbiology Data Validation Checklist

Week 1 / Sample Batch 1

SM9222B + 9221E (EC Broth) ---- Total and Fecal Coliforms

DIMOCK Microbiology Data Validation Checklist

SM9215C Heterotrophic Plate Count (spread plate using R2A agar)

Week 1 / Sample Batch 1

DR 2/9/12

QC	FB01	FB02	FB03	FB04	FB05	HW01	HW02	HW02z
Holding Time 8 Hours	23+ hrs. (u)	22+ (u)	23+ (u)	23+ (u)	9+ (u)	17+ (u)	20+ (u)	20+ (u)
Transport Temperature < 10°C	5.8°C	5.2°C	5.0°C	No Temp. on COC	No Temp on COC	5.0°C	5.0°C	5.0°C
Incubation Time (5-7d)	✓	✓	✓	✓	✓	✓	✓	✓
Incubation Temperature (20-28°C)	✓	✓	✓	✓	✓	✓	✓	✓
Field Blanks	N/A	N/A CFUs!	N/A	N/A	N/A	✓	✓	✓
Method Blanks (= MB)	✓	No MB	No MB	No MB	No MB	No MB	No MB	No MB
Media Positive Control	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Not done
Lab Reagent Water QC	✓	✓	✓	✓	✓	✓	✓	✓
Duplicate Plates?	No	✓	No	No	✓	✓	✓	✓

✓ = acceptable

(u) = unacceptable; out of limits

DIMOCK Microbiology Data Validation Checklist — Week 1 / Sample Batch 1

SM9215C Heterotrophic Plate Count (spread plate using R2A agar)

QC	HW04	HW05	HW06	HW08a	HW12	HW14	HW14-P	HW17
Holding Time 8 Hours	20+ hrs. (ω)	21+ (ω)	17+ (ω)	22+ (ω)	17+ (ω)	15+ (ω)	13+ (ω)	7'15" ~~31+ (ω)~~ DC 2/9/12
Transport Temperature < 10°C	5.2°C	No Temp on COC	No Temp. on COC	5.0°C	No Temp. on COC	No Temp. on COC	No Temp. on COC	No Temp. on COC
Incubation Time	✓	✓	✓	✓	✓	✓	✓	✓
Incubation Temperature	✓	✓	✓	✓	✓	✓	✓	✓
Field Blanks	✓*	✓	✓	✓	✓	✓	✓	✓
Method Blanks (= MB)	No MB	No MB	No MB	No MB	No MB	No MB	No MB	No MB
Media Positive Control	Not done	Not done	Not done	Not done	Not done	Not done	Not done	Not done
Lab Reagent Water QC	✓	✓	✓	✓	✓	✓	✓	✓
Duplicate Plates?	✓	✓	✓	✓	✓	✓	✓	✓

* Field blank in cooler w/ HW04 was contaminated.

DIMOCK Microbiology Data Validation Checklist

Week 1 / Sample Batch 1

SM9215C Heterotrophic Plate Count (spread plate using R2A agar)

QC	HW19	HW19-P	HW24	HW24-P				
Holding Time 8 Hours	20+ hrs.	19+	6:43" ~~30+~~ DR 2/9/12	5:32" ~~29+~~ DR 2/9/12				
Transport Temperature < 10°C	5.8°C	5.2°C	No Temp. on COC	No Temp. on COC				
Incubation Time	✓	✓	✓	✓				
Incubation Temperature	✓	✓	✓	✓				
Field Blanks	✓	✓	✓	✓				
Method Blanks (= MB)	✓	✓	No MB	No MB				
Media Positive Control	DR 2/19/12 ~~No~~ Not done	Not done	Not done	Not done				
Lab Reagent Water QC	✓	✓	✓	✓				
Duplicate Plates?	No	✓	✓	✓				

DIMOCK Microbiology Data Validation Checklist Week 1 / Sample Batch 1

SM9215C Heterotrophic Plate Count (spread plate using R2A agar)