FDEP Biology Lab- Toxicity Section
Test Instrument Serial Number Page

METER / DEVICE	ID	SOP	Parameter	Method	Benchsheet Code
YSI Model 58 Dissolved Oxygen Meter	90H018262	TA-06.04	Dissolved Oxygen	SM 4500 O G	DO1
Thermoscientific Orion Star A213	SN X49117 Probe: 019059	TA-06.39	Dissolved Oxygen	SM 4500 O G	DO2
Accumet AR-10 pH Meter	93312105	TA-06.23	pH	SM 4500 H+	PH1
Fisherbrand FE150	SN 2753630 Probe: 01X218988 Temp: S35934	TA- 06.37	pH	SM 4500 H+	PH2
Mettler-Toledo SevenMulti Conductivity Meter	SN: 1225117049 Probe: H04257	TA-06.25	Conductivity Salinity	SM 2510 B SM 2520 B	COND1
Traceable Bench Conductivity Meter	SN 170814827	TA-06.36	Conductivity Salinity	SM 2510 B SM 2520 B	COND2
Hach Ammonia Mid-Range Kit for freshwater	Kit Lot # A6070	TA-06.33	Ammonia	SM 4500 NH3	$NH_3$2
Hach Ammonia Kit NI-SA for saltwater	Kit Lot # A6055	TA-06.33	Ammonia	SM 4500 NH3	$NH_3$1
Hach Ammonia Nitrogen Pocket Colorimeter II	Kit Lot # A8051	TA-06.35	Ammonia	SM 4500 NH3	$NH_3$4
Traceable Thermometer	#15 - SN 210217416	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#15
Traceable Thermometer	#16- SN 210217465	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#16
Traceable Thermometer	#17- SN 210790518	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#17
Hach Chlorine Pocket Colorimeter II	#2-05050C026378	TA-06.22	Total Residual Chlorine	EPA 330.5 SM 4500 CL G	#2
Alkalinity (Hach Kit)	No SN	TA-06.08	Alkalinity	SM 2320 B	ALK1
Hardness (Hach Kit)	No SN	TA-06.08	Hardness	SM 2340 C	HARD1
Mettler Toledo XA105	B314195659	BB-36	Weight	-	BAL1
Mettler Toledo MS403TS/00	B815673069	TA-06.34	Weight	-	BAL3
S-Weights	BIO-S-WEIGHTS-01	NA	Balance check	-	S01

SM-2503B modified to allow use of electrionic and non-mercury filled thermometers.
Insert other device information in blank spaces as needed.

FDEP Biology Lab- Toxicity Section
Test Instrument Serial Number Page

METER / DEVICE	ID	SOP	Parameter	Method	Benchsheet Code
Fisher Scientific Timer	SN 80686096	-	Time	-	T-A
Fisher Scientific Timer	SN 80686202	-	Time	-	T-B
Fisher Scientific Timer	SN 200757674	-	Time	-	T-C
Fisher Scientific Timer	SN 20075766	-	Time	-	T-D
Mechanical Pipet - C. dubia 200 µL	M634224	TA-06.32	Volume	-	P1
Mechanical Pipet - Artemia 200 µL	GH41872	TA-06.32	Volume	-	P2
Mechanical Pipet - Artemia 1000 µL	F23899	TA-06.32	Volume	-	P3
Mechanical Pipet - AGP 100 µL	T50346	TA-06.32	Volume	-	P4
Mechanical Pipet - AGP 1000 µL	GH45893	TA-06.32	Volume	-	P5
Mechanical Pipet - AGP 200-1000 µL	V18439	TA-06.32	Volume	-	P6

FDEP Biology Laboratory-Toxicity Section
Artemia Suitability Bench Sheet

Method: EPA-821-R-02-014 SOP: TA-07

Start Date: _____Time: _____

End Date: _____Time: _____

Organism Age: _____

Organism Batch #: _____

Test Type
Static Screen

Organism: *A. bahia*
(SOP: TA-07.15, Method: 1007.0)

Test Randomizer #_____

Chamber Size
500 mL
Test Volume
250 mL

Diluent	Batch #/LIMS ID #	Days Used

Artemia Batch #'s	*Artemia* Batch #'s
Day 0 _____	Day 0 _____
Day 1 _____	Day 1 _____
Day 2 _____	Day 2 _____
Day 3 _____	Day 3 _____
Day 4 _____	Day 4 _____
Day 5 _____	Day 5 _____
Day 6 _____	Day 6 _____
Lot Letter: _____	Lot Letter: _____
Lot #	Lot #
_____	_____

Feeding Times	
First	Second
Day 0 * _____	Day 0_____
Day 1 _____	Day 1 _____
Day 2 _____	Day 2 _____
Day 3 _____	Day 3 _____
Day 4 _____	Day 4 _____
Day 5 _____	Day 5 _____
Day 6 _____	Day 6 _____
* Day 0 first feeding is 2 hours prior to test intiation. Mysids fed twice daily.	

Test Acceptablitiy Criteria		
Control Survival ≥ 80%:	Yes	No
Temperature Range ≤ 3° C:	Yes	No

Light Intensity: 50-100 ft candles (recommended) Photoperiod:16 hr light, 8 hr dark (recommended)

Reviewer:_____

Comments:

FDEP Biology Laboratory-Toxicity Section
Water Quality Information Sheet

Method: EPA-821-R-02-012 SOP: TA-07.15, Method: 1007.0

Water Quality Parameters	ASW LIMS lab # _____ Batch # _____	ASW LIMS lab # _____ Batch # _____	Method	SOP	Measured By:	Transcription Checked by:
Lab Total Residual Cl_2 (mg/L)			HACH	TA-06.22		
Alkalinity (mg/L as $CaCO_3$)			HACH	TA-06.08		
Total Ammonia (mg/L as N)			HACH	TA-06.35 or TA-06.33		
Conductivity (mmhos)			FISCHER	TA-06.36		
Salinity (ppt)			FISCHER	TA-06.36		
Days Used						

Temperature Range (°C)	
Incubator #_____	
Min._____	**Max._____**
Test	
Min._____	**Max._____**
Room B246	
Min._____	**Max._____**

Comments:

FDEP Biology Laboratory- Toxicity Section

Artemia Suitability Survival Page

SOP: TA-07.15, Method: EPA-821-R-02-012

Artemia Lot	Replicate	TEST DAY							
		0	1	2	3	4	5	6	7
	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
Checked by:									
Concentrations by:									

Artemia Lot	Replicate	TEST DAY							
		0	1	2	3	4	5	6	7
	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
Checked by:									
Concentrations by:									

Loaded by (0 hour): _____

Verified by (0 hour): _____

Concentrations by (0 hour): _____

Chamber Letter: __

D = dead M = missing

Comments:

FDEP Biology Laboratory- Toxicity Section
Artemia Suitability Parmeters Benchsheet

SOP: TA-07.15, Method: EPA-821-R-02-012

Organism: *A. bahia*

← Test Day	Artemia Lot	Before Renewal						After Renewal					
		Test Rep	pH (su)	Temp (°C)	DO (mg/L)	Cond (mmhos-cm)	Salinity (ppth)	Test Rep	pH (su)	Temp (°C)	DO (mg/L)	Cond (mmhos-cm)	Salinity (ppth)
Day 0													
	Measured by:												
	Recorded by:												
Day 1													
	Measured by:												
	Recorded by:												
Day 2													
	Measured by:												
	Recorded by:												
Day 3													
	Measured by:												
	Recorded by:												
Day 4													
	Measured by:												
	Recorded by:												
Day 5													
	Measured by:												
	Recorded by:												
Day 6													
	Measured by:												
	Recorded by:												
Day 7													
	Measured by:												
	Recorded by:												

Rep = Replicate, Temp = Temperature, Cond = Conductivity

Comments:

FDEP Biology Laboratory-Toxicity Section
Artemia Suitability Weighing Benchsheet

SOP: TA-07.15, Method: EPA-821-R-02-01

Mean wt.=Mysid wt. divided by 5

Artemia Lot	Replicate	Pan #*	Pan wt. (g)	Pan + mysid wt. (g)	Mysid wt. (g)	Original # mysids	Mean wt. (mg)	Mean wt./ Concentration (mg)
	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
Weighed by initials:								

* Note: Pan number refers to actual replicate # wt. = Weight

Comments:

FDEP Biology Laboratory-Toxicicty Section
Atremia Suitability Weighing Benchsheet
Quality Control

A. bahia

SOPs: TA-7.15 and TA-6.21 Method: EPA-821-R-02-012

Empty Pan Weights Date: _____ Weighed By:_____

Weights in grams	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	@	
after Pan 10	@	
after Pan 15	@	
after Pan 16	@	

	Measured Value (g)	S-weight Value (g)
S-weights	@	
	@	

Fish + Pan Weights Date: _____ Weighed By:_____

Weights in grams	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	@	
after Pan 10	@	
after Pan 15	@	
after Pan 16	@	

	Measured Value (g)	S-weight Value (g)
S-weights	@	
	@	

S-Weights: BIO-S-WEIGHTS-01
Balance: Mettler Toledo XA105
Ser# B314195659

Drying Oven ID: _____
Temperature °C: _____
Drying Hours: _____
Date/Time in oven:_____
Date/Time out of oven:_____

Comments:

FDEP Biology Laboratory-Toxicity Section
Artemia Suitability Bench Sheet

SOP: TA-07.15, Method: EPA-821-R-02-012

A. bahia

Test ID: Dates:

METER / DEVICE	Instrument Code
DO Meter	
pH Meter	
Conductivity Meter	
Ammonia Kit	
Traceable Thermometer	
Chlorine Kit	
Alkalinity Kit	
Balances used	
Weights used	
Entered by and date:	