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

OLD	NEW
***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: _____	Lot: _____
LIMS # _____	LIMS # _____

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.	

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

Test Acceptablitiy Criteria		
Control Survival ≥ 80%:	Yes	No
Temperature Range ≤ 3° C:	Yes	No
Mean Weight / Conc. ≥ 0.2 mg	Yes	No

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 # _____	SOP	Transcribed By:	Transcription Checked by:
Lab Total Residual Cl_2 (mg/L)			TA-06.22		
pH (SU)			TA-06.43		
Alkalinity (mg/L as $CaCO_3$)			TA-06.08		
Total Ammonia (mg/L as N)			TA-06.35		
Conductivity (mmhos)			TA-06.36		
Salinity (ppt)			TA-06.36		
Days Used					

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

Comments:

FDEP Biology Laboratory- Toxicity Section

Artemia Suitability Survival Page

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

"Old" Lot

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:									

"New" Lot

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	OLD												
	New												
	Measured by:												
	Recorded by:												
Day 1	OLD												
	New												
	Measured by:												
	Recorded by:												
Day 2	OLD												
	New												
	Measured by:												
	Recorded by:												
Day 3	OLD												
	New												
	Measured by:												
	Recorded by:												
Day 4	OLD												
	New												
	Measured by:												
	Recorded by:												
Day 5	OLD												
	New												
	Measured by:												
	Recorded by:												
Day 6	OLD												
	New												
	Measured by:												
	Recorded by:												
Day 7	OLD												
	New												
	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)
OLD	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
NEW	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.		Measured Value (g)	S-weight Value (g)
after Pan 5	@		S-weights	@	
after Pan 10	@			@	
after Pan 15	@				
after Pan 16	@				

Fish + Pan Weights Date: _____ Weighed By:_____

Weights in grams	Pan 1 wt.	Pan 1 initial wt.		Measured Value (g)	S-weight Value (g)
after Pan 5	@		S-weights	@	
after Pan 10	@			@	
after Pan 15	@				
after Pan 16	@				

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 Suianitlity 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:	