FDEP Biology Laboratory-Toxicity Section
Chronic SRT Bench Sheet

Start Date: _____ **Time:** _____ **Randomizer #**_____

End Date: _____ **Time:** _____

Test Type	
☐	Screen
☐	Definitive
☐	Static
☐	Flow-through

Circle one:

P. promelas (SOP:TA-07.09, Method: 1000.0)

M. beryllina (SOP: TA-07.04, Method: 1006.0)

Chamber Size 1000 mL
Test Volume 500 mL

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

Toxicant	Batch #/LIMS ID #	Days Used

Diluent	Batch #/LIMS ID #	Days Used

Organism Age: _____

Batch #: _____

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 _____

***"First" is 2 hours before initiation/renewal.**

Artemia Batch #'s
Day 0 _____
Day 1 _____
Day 2 _____
Day 3 _____
Day 4 _____
Day 5 _____
Day 6 _____
Artemia LIMS # _____

Stats run by/Date: _____

Stats verified by/Date: _____

P. promelas PMSD Bounds for Growth: Lower 12 Upper 30

M. beryllina PMSD Bounds for Growth: Lower 11 Upper 28

Results	
Control % CV:	
Dunnetts PMSD (%):	
Growth IC_{25} (g/L):	
Growth NOEC (g/L):	
Growth LOEC (g/L):	
Survival NOEC (g/L):	
Survival LOEC (g/L):	

Test Validation		
Control Survival ≥ 80%:	Yes	No
Temperature Range ≤ 3° C:	Yes	No
*≥ Required Mean Weight / Conc.:	Yes	No

**P. promelas* ≥ 0.25 mg; *M. beryllina* ≥ 0.5 mg

REVIEWER:_____

Comments:

FDEP Biology Laboratory-Toxicity Section
SRT Water Quality Information Sheet

Method: EPA-821-R-02-012

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

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

Comments:

FDEP Biology Laboratory - Toxicicty Section
Chronic SRT Survival Benchsheet

Circle one:
P. promelas (SOP:TA-07.09, Method: 1000.0)
M. beryllina (SOP: TA-07.14, Method: 1006.0)

D = dead M = missing

Concentration (g/L)	Replicate	Chamber	TEST DAY							
			0	1	2	3	4	5	6	7
Control	A		10							
	B		10							
	C		10							
	D		10							
	A		10							
	B		10							
	C		10							
	D		10							
	A		10							
	B		10							
	C		10							
	D		10							
	A		10							
	B		10							
	C		10							
	D		10							
	A		10							
	B		10							
	C		10							
	D		10							
	A		10							
	B		10							
	C		10							
	D		10							
	A		10							
	B		10							
	C		10							
	D		10							
Loaded by (0 hr): _____		Checked by:								
Verified by (0 hr): _____										
Concentrations prepared by:										

Comments:

FDEP Biology Laboratory - Toxicicty Section
Chronic SRT Parameters Benchsheet

Circle one:
P. promelas (SOP:TA-07.09, Method: 1000.0)

M. beryllina (SOP: TA-07.14, Method: 1006.0)

Rep = replicate Temp = Temperature DO = Dissolved oxygen Conc. = Concentration circle umhos or mmhos

← Test Day	Conc. (g/L)	Before Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (umhos / mmhos)	Salinity (ppth)	After Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (umhos / mmhos)	Salinity (ppth)
Day 0	Control	A											
		A											
		A											
		A											
		A											
		A											
		A											
	Measured by												
	Recorded by												
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 1	Control	B						B					
		B						B					
		B						B					
		B						B					
		B						B					
		B						B					
		B						B					
	Measured by												
	Recorded by												
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 2	Control	C						C					
		C						C					
		C						C					
		C						C					
		C						C					
		C						C					
		C						C					
	Measured by												
	Recorded by												
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 3	Control	D						D					
		D						D					
		D						D					
		D						D					
		D						D					
		D						D					
		D						D					
	Measured by												
	Recorded by												

Comments:

FDEP Biology Laboratory - Toxicicty Section
Chronic SRT Parameters Benchsheet

Circle one:
P. promelas (SOP:TA-07.09, Method: 1000.0)

M. beryllina (SOP: TA-07.14, Method: 1006.0)

Rep = replicate Temp = Temperature DO = Dissolved oxygen Conc. = Concentration circle umhos or mmhos

← Test Day	Conc. (g/L)	Before Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (umhos / mmhos)	Salinity (ppth)	After Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (umhos / mmhos)	Salinity (ppth)
Day 4	Control	A						A					
		A						A					
		A						A					
		A						A					
		A						A					
		A						A					
		A						A					
	Measured by												
	Recorded by												
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 5	Control	B						B					
		B						B					
		B						B					
		B						B					
		B						B					
		B						B					
		B						B					
	Measured by												
	Recorded by												
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 6	Control	C						C					
		C						C					
		C						C					
		C						C					
		C						C					
		C						C					
		C						C					
	Measured by												
	Recorded by												
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 7	Control	D						D					
		D						D					
		D						D					
		D						D					
		D						D					
		D						D					
		D						D					
	Measured by												
	Recorded by												

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic SRT Weight Benchsheet

Circle one:
Pimephales promelas : SOP TA-7.09; EPA-821-R-01-013; Method 1000.0
Menidia beryllina: SOP TA-7.14; EPA-821-R-014; Method 1006.0

wt.= Weight Conc. = Concentration

			Mean wt. = Fish wt. divided by 10					
Concentration (g/L)	Replicate	Pan # *	Pan wt. (g)	Pan + Fish (g)	Fish wt. (g)	Original # of fish	Mean wt. (mg.)	Mean wt./Conc. (mg)
Control	A					10		
	B					10		
	C					10		
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
	Weighed by initials:							

* Pan # refers to actual pan # and corresponding chamber #

Comments:

FDEP Biology Laboratory-Toxicicty Section
Chronic SRT Benchsheet
Weight Quality Control

Circle one:

Pimephales promelas : SOP TA-7.09; EPA-821-R-01-013; Method 1000.0

Menidia beryllina : SOP TA-7.14; EPA-821-R-014; Method 1006.0

Empty Pan Weights Date: _____ Weighed by:_____

Weights in grams	1st Pan wt.	1st Pan initial wt.
after 5th Pan	@	
after 10th Pan	@	
after 15th Pan	@	
after 20th Pan	@	
after 24th Pan	@	

	Measured Value (g)	Class 1 Value (g)
Class 1 Weight	@	0.01
	@	0.05

S-Weights: BIO-S-WEIGHTS-01

Balance: Mettler Toledo XA105

Ser# B314195659

Fish + Pan Weights Date: _____ Weighed by:_____

Weights in grams	1st Pan wt.	1st Pan initial wt.
after 5th Pan	@	
after 10th Pan	@	
after 15th Pan	@	
after 20th Pan	@	
after 24th Pan	@	

	Measured Value (g)	Class 1 Value (g)
Class 1 Weight	@	0.01
	@	0.05

Drying Oven ID: Oven #1 (42073712)

Temperature °C: 60 °C

Drying Hours: 24 Hrs

Date/Time in oven:_____

Date/Time out of oven:_____

Comments:

Instrument Code Sheet

Test ID: Dates:

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

Comments: