FDEP Biology Laboratory-Toxicity Section
Chronic PT Bench Sheet

Method: EPA-821-R-02-012

Start Date: _____ Time: _____
End Date: _____ Time: _____

Circle one:

Test Type
Definitive
Static

P. promelas (SOP:TA-07.09, Method: 1000.0)
M. beryllina (SOP: TA-07.04, Method: 1006.0)

PT Sample ID:_____
Chamber Size 1000 mL Test Volume 500 mL

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

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" feeding is 2 hours prior to test intiation/renewal.**

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

Concentrations prepared by:_____

Loaded by: _____

Verified by:_____

Randomizer #:_____

Stats run by/Date: _____
Stats verified by/Date: _____

Results	
Control % CV(%):	
Dunnetts PMSD(%):	
IC25(%):	
Reproduction NOEC(%):	
Reproduction LOEC(%):	
Survival NOEC(%):	
Survival LOEC(%):	

Circle one:

P. promelas PMSD Bounds for Growth: Lower 12 Upper 30 *Mean Weight ≥ 0.25 mg

M. beryllina PMSD Bounds for Growth: Lower 11 Upper 28 *Mean Weight ≥ 0.5 mg

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

LIMS upload:_____ Authorized by:_____ REVIEWER:_____

Comments:

FDEP Biology Laboratory-Toxicity Section
PT Water Quality Information Sheet

Method: EPA-821-R-02-012

Water Quality Parameters	LIMS ID # _____ Batch # _____	LIMS ID # _____ Batch # _____	LIMS ID # _____ Batch # _____	LIMS ID # _____ Batch # _____	PT Sample LIMS ID # _____	SOP	Transcribed By:	Transcription Checked by:
pH (SU)						TA-06.43		
DO (mg/L)						TA-06.39		
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- Toxicity Section
Chronic PT Survival Benchsheet

D = dead **M = missing**

Concentration: %			TEST DAY							
Concentration	**Replicate**	**Chamber**	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Control	A		10							
	B		10							
	C		10							
	D		10							
6.25%	A		10							
	B		10							
	C		10							
	D		10							
12.5%	A		10							
	B		10							
	C		10							
	D		10							
25%	A		10							
	B		10							
	C		10							
	D		10							
50%	A		10							
	B		10							
	C		10							
	D		10							
100%	A		10							
	B		10							
	C		10							
	D		10							
Loaded by (0 hr): _____		**Checked by:**								
Verified by (0 hr): _____										
Concentrations prepared by:										

Comments:

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Chronic PT Parameter Page

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Conc = concentration **Rep = replicate** **Circle: µmhos or mmhos**

Test Day	Conc. (%)	Before Renewal						After Renewal					
		Test Rep.	pH (SU)	Temp (°C)	DO (mg/L)	Conductivity (umhos / mmhos)	Salinity (ppth)	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:

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Concentration: % **Conc = Concentration** **Rep = Replicate** **Circle: µmhos or mmhos**

Test Day	Conc.	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											
	Measured by												
	Recorded by												

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic PT Weight Benchsheet

wt.= Weight Conc. = Concentration

			Mean wt. = Fish wt. divided by 10					
Concentration (%)	**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		
	Weighed by initials:							

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic PT Weight Quality Control

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

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

Drying Oven ID: Oven #1 (42073712)

Temperature °C: 60°C

Drying Hours: 24 hrs

ıte/Time Organisms in oven: _____

ıte/Time Organisms out of oven: _____

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic PT Instrument Code Page

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: