FDEP Biology Lab - Toxicity Section
Test Instrument Serial Number Page

Method: EPA-821-R-02-012

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

Method: EPA-821-R-02-012

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
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
Acute PT Bench Sheet

Method: EPA-821-R-02-012

Test Type
Definitive Static

Test Duration: 48 Hours
All species fed 2 hrs prior to test, *A. bahia* fed daily.

Artemia Batch #'s
0 hr _____
24 hr _____
Artemia Lot # _____

Test 1 of 2 Start Date: _____ Start Time:_____
End Date:_____ End Time:_____

Diluent	Batch #/LIMS ID #	Days Used
PT Sample ID		Days Used

Test 2 of 2 Start Date:_____ Start Time: _____
End Date: _____ End Time:_____

Diluent	Batch #/LIMS ID #	Days Used
PT Sample ID		Days Used

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

Food	Days Used
YCT Batch # _____	
P. subcapitata Batch # _____	

Randomizer #_____

C. dubia fed 0.2 ml of *YCT and and *P. subcapitata* in a 1:1 ratio. Pipette P1 used for feeding *P. promelas* , *M. beryllina* , and *A. bahia* fed 0.2 ml of *Artemia* . YCT= yeast, cereal leaves and trout chow
REVIEWER:_____

Comments:

FDEP Biology Laboratory - Toxicity Section
Acute PT Water Quality Information Sheet

Method: EPA-821-R-02-012

Water Quality Parameters	MHWCD LIMS ID # _____ Batch # _____	MHW LIMS ID # _____ Batch # _____	ASW LIMS ID # _____ Batch # _____	LIMS ID # _____ 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		
Hardness (mg/L as $CaCO_3$)**:**					HACH	TA-06.08		
Total Ammonia (mg/L as N)**:**					HACH	TA-06.35 or TA-06.33		
Conductivity: □ µmhos □ mmhos**:**					FISCHER	TA-06.36		
Salinity (ppt)					FISCHER	TA-06.36		
Days Used								

Comments:

FDEP Biology Laboratory - Toxicity Section
Acute PT Information Bench Sheet

Method: EPA-821-R-02-012

Test 1 of 2

Start Date: _____ Time: _____

End Date: _____ Time: _____

SOP: TA-07.____

Test Species
☐ ***Ceriodaphnia dubia*** (SOP: TA-07.01, Method:2002.0)
☐ ***Pimephales promelas*** (SOP TA-07.02, Method: 2000.0)
☐ ***Menidia beryllina*** (SOP TA-07.04, Method: 2006.0)
☐ ***Americamysis bahia*** (SOP TA-07.03, Method: 2007.0)
Batch #:_____ Age: _____

PT Sample ID:_____

Chamber Size _____mL
Test Volume _____mL

Randomizer # _____

Feeding Times	
First	**Second**
0 hr * _____	**0 hr _____**
24 hr_____	**24 hr_____**

*0 hr "First" is 2 hours prior to test.

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

LIMS upload:_____ Verified by: _____

Test Results

Method: EPA		95% Confidence Intervals		% mortality in 100%
Statistics:	**LC50 (%)**	**Lower (%)**	**Upper (%)**	
48 hour:				

Test Validation		
Control Survival ≥ 90%:	**Yes**	**No**
Temperature Range ≤ 3° C:	**Yes**	**No**

Stats Calculated by/Date:_____ Stats Verified by/Date:_____

Comments:

FDEP Biology Laboratory - Toxicicty Section
Acute PT Survival Sheet

Method: EPA-821-R-02-012

Test 1 of 2

Concentration (%)	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr
Control	A				
	B				
	C				
	D				
6.25	A				
	B				
	C				
	D				
12.5	A				
	B				
	C				
	D				
25	A				
	B				
	C				
	D				
50	A				
	B				
	C				
	D				
100	A				
	B				
	C				
	D				
		Checked by:			

Loaded by:_____

Verified by:_____

Concentrations prepared by: _____

hr= hour

M= missing

D= dead

Comments:

FDEP Biology Laboratory - Toxicity Section
Acute PT Parameter Sheet

Method: EPA-821-R-02-012

Test 1 of 2

	Concentration (%)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos/mmhos)	**Salinity** (ppt)
0 Hours	**Control**						
	Measured by:						
	Recorded by:						
	Concentration (%)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos/mmhos)	**Salinity** (ppt)
24 Hours	**Control**						
	Measured by:						
	Recorded by:						
	Concentration (%)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos/mmhos)	**Salinity** (ppt)
48 Hours	**Control**						
	Measured by:						
	Recorded by:						

Comments:

FDEP Biology Laboratory
Toxicity Section
Test Instrument Page

Test 1 of 2

Test ID: **Dates:**

METER / DEVICE	Instrument Code
DO Meter	
pH Meter	
Conductivity Meter	
Ammonia Kit	
Traceable Thermometer	
Chlorine Kit	
Alkalinity Kit	
Hardness Kit	

Entered by and date:

FDEP Biology Laboratory - Toxicity Section
Acute PT Information Bench Sheet

Method: EPA-821-R-02-012

Test 2 of 2

Start Date: _____ Time: _____

End Date: _____ Time: _____

SOP: TA-07.____

Test Species
☐ ***Ceriodaphnia dubia*** (SOP: TA-07.01, Method:2002.0)
☐ ***Pimephales promelas*** (SOP TA-07.02, Method: 2000.0)
☐ ***Menidia beryllina*** (SOP TA-07.04, Method: 2006.0)
☐ ***Americamysis bahia*** (SOP TA-07.03, Method: 2007.0)
Batch #:_____ Age: _____

PT Sample ID:_____

Chamber Size _____mL
Test Volume _____mL

Randomizer # _____

Feeding Times	
First	**Second**
0 hr * _____	**0 hr _____**
24 hr_____	**24 hr_____**

*0 hr "First" is 2 hours prior to test.

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

LIMS upload:_____ Verified by: _____

Test Results

Method: EPA		95% Confidence Intervals		% mortality in 100%
Statistics:	**LC50 (%)**	**Lower (%)**	**Upper (%)**	
48 hour:				

Test Validation		
Control Survival ≥ 90%:	**Yes**	**No**
Temperature Range ≤ 3° C:	**Yes**	**No**

Stats Calculated by/Date:_____ Stats Verified by/Date:_____

Comments:

FDEP Biology Laboratory - Toxicicty Section
Acute PT Survival Sheet

Method: EPA-821-R-02-012

Test 2 of 2

Concentration (%)	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr
Control	A				
	B				
	C				
	D				
6.25	A				
	B				
	C				
	D				
12.5	A				
	B				
	C				
	D				
25	A				
	B				
	C				
	D				
50	A				
	B				
	C				
	D				
100	A				
	B				
	C				
	D				
		Checked by:			

Loaded by:_____

Verified by:_____

Concentrations prepared by: _____

hr= hour

M= missing

D= dead

Comments:

FDEP Biology Laboratory - Toxicity Section
Acute PT Parameter Sheet

Method: EPA-821-R-02-012

Test 2 of 2

	Concentration (%)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos/mmhos)	**Salinity** (ppt)
0 Hours	**Control**						
	Measured by:						
	Recorded by:						
	Concentration (%)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos/mmhos)	**Salinity** (ppt)
24 Hours	**Control**						
	Measured by:						
	Recorded by:						
	Concentration (%)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos/mmhos)	**Salinity** (ppt)
48 Hours	**Control**						
	Measured by:						
	Recorded by:						

Comments:

FDEP Biology Laboratory
Toxicity Section
Test Instrument Page

Test 2 of 2

Test ID: **Dates:**

METER / DEVICE	Instrument Code
DO Meter	
pH Meter	
Conductivity Meter	
Ammonia Kit	
Traceable Thermometer	
Chlorine Kit	
Alkalinity Kit	
Hardness Kit	

Entered by and date: