FDEP Biology Laboratory - Toxicity Section
Acute SRT Bench Sheet

Method: EPA-821-R-02-012

SOP TA-07.02

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:

FDEP Biology Lab-Toxicity Section
Acute SRT Bench Sheet

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Test Meter Serial Number Code Sheet

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	#12 - SN 200815417 Probe SN 200815417	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#12
Traceable Thermometer	#13- SN 210217473 Probe SN 210217473	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#13
Traceable Thermometer	#14- SN 210233584 Probe P1/P2 SN 210233584	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#14
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.

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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
C. leedsi Acute SRT Bench Sheet

Method: EPA-821-R-02-012

SOP TA-7.02

Start Date: _____ Time: _____

End Date: _____ Time: _____

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

Test Duration
☐ 48 hours
☐ 96 hours
☐ ___ hours

Test Species
Cyprinella leedsi (SOP: TA-07.02 Method: EPA-821-R-02-012)
Batch #:_____ Age: _____

Cyprinella leedsi fed 0.2 ml of *Artemia* .
***Artemia* Batch #'s**
0 hr _____
48 hr _____
Artemia Lot # _____
Light Intensity: 50-100 ft candles (recommended) Photoperiod:16 hr light, 8 hr dark (recommended)

Feeding Times	
First	Second
0 hr * _____	0 hr _____
48 hr * _____	48 hr _____

*0 hr 'First' is 2 hours prior to test and 48 hr 'First' is 2 hours prior to renewal

Diluent	Batch #/LIMS ID #	Days Used
Toxicant	**Batch #/LIMS ID #**	**Days Used**

Reviewer_____

Comments:

FDEP Biology Laboratory - Toxicity Section
C. leedsi Acute SRT Bench Sheet

Method: EPA-821-R-02-012

SOP TA-07.02

Chamber Size 1000 mL
Test Volume 500 mL

Randomizer #_____

Concentrations Prepared by:_____

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

Test Loaded by:_____

Loading Verified by:_____

Concentrations at 48 hrs Prepared by:_____

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

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

Test Results				
Method: EPA		**95% Confidence Intervals**		**% Mortality in 100%**
Statistics:	**LC50**	**Lower**	**Upper**	
48 hour:				
96 hour:				

Comments:

FDEP Biology Laboratory - Toxicity Section

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SOP TA-7.02

Water Quality Parameters

Water Quality Parameters	MHW LIMS ID # _____ Batch # _____	MHW 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):			FISCHER	TA-06.36		
Days Used						

Comments:

FDEP Biology Laboratory - Toxicicty Section

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Survival Sheet

Concentration (g/L)	Replicate	Chamber #	Test Hour					
			0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
Control								
Loaded by:_________		Checked by:						
Verified by:_________								

BR = Before Renewal **AR = After Renewal** **hr = Hour** **M = missing** **D = Dead**

Comments:

FDEP Biology Laboratory - Toxicity Section

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Method: EPA-821-R-02-012
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DO = Dissolved oxygen

Test Parameters

	Concentration (g/L)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos)
0 Hours	Control					
		Measured by:				
		Recorded by:				
	Concentration (g/L)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos)
24 Hours	Control					
		Measured by:				
		Recorded by:				
	Concentration (g/L)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos)
48 Hours Before Renewal	Control					
		Measured by:				
		Recorded by:				

Comments:

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DO = Dissolved oxygen

Test Parameters

	Concentration (g/L)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos)
48 Hours After Renewal	Control					
	Measured by:					
	Recorded by:					
	Concentration (g/L)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos)
72 Hours	Control					
	Measured by:					
	Recorded by:					
	Concentration (g/L)	**Test Replicate**	**pH** (SU)	**Temperature** (°C)	**DO** (mg/L)	**Conductivity** (umhos)
96 Hours	Control					
	Measured by:					
	Recorded by:					

Comments: