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	#7 - SN 160858748 Probe SN 192321162	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#7
Traceable Thermometer	#10- SN 200353477 Probe SN 192321162	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#10
Traceable Thermometer	#11- SN 200501357 Probe SN 181597158	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#11
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	PCR-2.2	Weight	-	BAL1
Mettler Toledo MS403TS/00	B815673069	TA-06.34	Weight	-	BAL3
S-Weights	BIO-S-WEIGHTS-01	NA	Balance check	-	S01

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

FDEP Biology Laboratory-Toxicity Section
Chronic PT Bench Sheet

Method: EPA-821-R-02-012

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

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

Test Species: *Ceriodaphnia dubia*
(SOP: TA-07.01, Method:2002.0)

Organism Age: _____
Organism Batch #: _____

PT Sample ID:_____

Chamber Size _____mL
Test Volume _____mL

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

Diluent	Batch #/LIMS ID #	Days Used

Test Randomizer #_____

Replicates	Culture vial
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

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

C. dubia fed 0.2 ml of *YCT and and *P. subcapitata* in a 1:1 ratio. YCT= yeast, cereal leaves and trout chow

Results	
Control % CV(%):	
Dunnetts PMSD(%):	
ICP25(%):	
Reproduction NOEC(%):	
Reproduction LOEC(%):	
Survival NOEC(%):	
Survival LOEC(%):	

Concentration	Mean neonates	% survival
Control		

LIMS upload:_____
Verified by:_____

Reviewer:_____

Test Validation		
Control Survival ≥ 80%:	**Yes**	**No**
Temperature Range ≤ 3° C:	**Yes**	**No**

Comments:

FDEP Biology Laboratory-Toxicity Section
PT Water Quality Sheet

Method: EPA-821-R-02-012

Water Quality Parameters	MHWCD LIMS ID # _____ Batch # _____	MHWCD 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)			Fisher	TA-06.36		
Days Used						

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

Comments:

FDEP Biology Laboratory-Toxicity Section

Chronic PT Bench Sheet

Ceriodaphnia dubia Reproduction and Survival Page

Loaded by: _____

Conc.: %		Replicate Number										Total neonates	Surviving original organisms	Neonates per female	Counts by:	Conc. prep by:	Fed by/Time fed:
Conc.	Day	1	2	3	4	5	6	7	8	9	10						
Control	0*																@
	1																@
	2																@
	3																@
	4																@
	5																@
	6																@
	7																@
	8																@
	Total																@

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving original organisms	Neonates per female
	0*													
	1													
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total													

s=split brood

(#) = 4th brood; not counted

***Day 0 is test initiation day**

X = Dead (original organism)

Conc. = Concentration of PT sample in %

Comments:

Test acceptability	Circle one:
Mean control reproduction 15/female	Yes No
3rd brood in 60% of surviving females	Yes No
Control survival ≥ 80%	Yes No

FDEP Biology Laboratory-Toxicity Section

Chronic PT Bench Sheet

Ceriodaphnia dubia Reproduction and Survival Page

Conc.: %		Replicate Number										Total neonates	Surviving original organisms	Neonates per female
Conc.	Day	1	2	3	4	5	6	7	8	9	10			
	0*													
	1													
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total													

		Replicate Number										Total neonates	Surviving original organisms	Neonates per female
Conc.	Day	1	2	3	4	5	6	7	8	9	10			
	0*													
	1													
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total													

Comments:

s=split
(#) 4th brood; not counted
*Day 0 is test initiation day
X = Dead (original organism)

FDEP Biology Laboratory-Toxicity Section

Chronic PT Bench Sheet

Ceriodaphnia dubia Reproduction and Survival Page

Conc. : %

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving original organisms	Neonates per female
	0*													
	1													
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total													

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving original organisms	Neonates per female
	0*													
	1													
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total													

Comments:

s=split
(#) = 4th brood; not counted
*Day 0 is test initiation day
X = Dead (original organism)

FDEP Biology Laboratory-Toxicity Section

Chronic PT Bench Sheet

Ceriodaphnia dubia Parameters

Test Day	Conc. %	New Sample Replicate	New Sample pH (SU)	New Sample Temp (°C)	New Sample DO (mg/L)	New Sample Conductivity (µmhos/cm)	Old Sample Replicate	Old Sample pH (SU)	Old Sample Temp (°C)	Old Sample DO (mg/L)	Old Sample Conductivity (µmhos/cm)
Day 0	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 1	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 2	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 3	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										

Replicate M= "Metered" vial, a surrogate vial for parameters

Comments:

FDEP Biology Laboratory-Toxicity Section

Chronic PT Bench Sheet

Ceriodaphnia dubia Parameters

Test Day	Conc. %	New Sample Replicate	New Sample pH (SU)	New Sample Temp (°C)	New Sample DO (mg/L)	New Sample Conductivity (µmhos/cm)	Old Sample Replicate	Old Sample pH (SU)	Old Sample Temp (°C)	Old Sample DO (mg/L)	Old Sample Conductivity (µmhos/cm)
Day 4	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 5	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 6	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 7	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 8	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										

Replicate M= "Metered" vial, a surrogate vial for parameters

Comments:

FDEP Biology Laboratory-Toxicity Section

Chronic PT Bench Sheet

Ceriodaphnia dubia 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:	