FDEP Biology Laboratory-Toxicity Section
Chronic PT Bench Sheet

Method: EPA-821-R-02-012

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

Test Type
Definitive Static
Chamber Size 30 mL Test Volume 20 mL
PT Sample ID:_____

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

Organism Age: _____
Organism Batch #: _____

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

Diluent	Batch #/LIMS ID #	Days Used

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

C. dubia fed 0.2 ml of *YCT and and R. *subcapitata* in a 1:1 ratio. YCT= yeast, cereal leaves and trout chow. Pipette P1 used for feeding.

Test Randomizer #_____

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

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

Concentration (%)	Mean neonates	% survival
Control		
6.25		
12.5		
25		
50		
100		

Test Validation		
Control Survival ≥ 80%:	Yes	No
Test Temperature Range ≤ 3° C:	Yes	No
Mean control reproduction ≥ 15 neonates per female:	Yes	No
3rd brood in 60% of surviving females:	Yes	No

LIMS upload:_____
Authorized by:_____

Reviewer:_____

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 # _____	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)				TA-06.36		
Days Used						

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

Comments:

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Ceriodaphnia dubia Reproduction and Survival Page

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
6.25%	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

Loaded by: _____

Verified By: _____

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

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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			
12.5%	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			
25%	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)

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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
50%	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
100%	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)

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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:

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Chronic PT Bench Sheet
Ceriodaphnia dubia Parameters

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

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

Comments:

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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	

Entered by and date:

Comments: