FDEP Biology Laboratory - Toxicity Section
Chronic Bioassay Information Sheet

Sample Collection: **Date:**_____ **Time:**_____

Hold Time Start: **Date:**_____ **Time:**_____

Test Species: ***Ceriodaphnia dubia***
(SOP: TA-07.05, Method: 2002.0)

Test Start Date:_____ **Time:**_____

Test End Date:_____ **Time:**_____

Facility:_____

_____

Address:_____

_____

County:_____

NPDES Permit #: FL _____

Contact: _____ **District:**_____

LIMS Job #:_____**LIMS Sample #:**_____

LIMS Entry:_____

Authorized:_____

Chamber Size: 30 mL
Test Volume: 20 mL

Organism Age:
_____
Organism Batch #:
_____

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

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

Initial Sample Handling:						Sample Validation:		
pH adjustment:		**Aeration:**		**Dechlorination:**				
Yes	**No**	**Yes**	**No**	**Yes**	**No**			
Initial pH: _____		**Initial DO:** _____mg/L		**Initial TRC:** _____ mg/L		**Temperature Shipped ≤ 6°C:**	**Yes**	**No**
						If Hand Delivered, Cooling:	**Yes**	**No**
						Received: _____ °C **Collected:** _____ °C		
NaOH: _____N		**Final DO:** _____mg/L		_____ mL of 0.025 N Sodium Thiosulfate per liter of sample.		**Holding Time ≤ 36 Hours:**	**Yes**	**No**
HCl: _____N		**Duration:** _____minutes		**Final TRC:** _____mg/L		**(Composite: End of collection; Grab: When collected; 4 in 24: Time last sample collected)**		
_____ mL added		**Rate:** ~ _____ bubbles per min						
Final pH: _____								

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 prior to test and daily. YCT= yeast, cereal leaves and trout chow

Reviewer: _____

Comments:

FDEP Biology Laboratory - Toxicity Section
Chronic Bioassay Information Sheet

LIMS Sample #: _____ (for lab sample # 1)

Method: EPA-821-R-02-013
SOP TA-07.05

Start Date: _____ **Time:** _____

End Date: _____ **Time:** _____

Randomizer #: _____	
Test Replicates	**Culture vial**
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

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

Diluent	Batch #/LIMS ID #	Days Used

Stats by/Date: _____

Stats verified by/Date: _____

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

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

Concentration	Mean neonates per female	% Survival
Control		

Comments:

FDEP Laboratory-Toxicity Section
Chronic Water Quality Benchsheet

Method: EPA-821-R-02-13 SOP TA-07.05

Sample Received	LAB Sample #	LIMS JOB #	LIMS SAMPLE #	Collection Date/Time	Received Date/Time
Test Day 0	**1**	TLH-			
Test Day 2	**2**	TLH-			
Test Day 4	**3**	TLH-			

Water Quality Parameters	MHWCD LIMS ID # _____ Batch # _____	MHWCD LIMS ID # _____ Batch # _____	Sample 1 LIMS Sample #: _____	Sample 2 LIMS Sample #: _____	Sample 3 LIMS Sample #: _____	SOP	Transcribed By:	Transcription Checked by:
Field Total Residual Cl_2 (mg/L)	N/A	N/A				TA-06.22		
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		
Salinity (ppt)						TA-06.36		
Days Used								

Comments:

FDEP Biology Laboratory-Toxicicty Section
Chronic Bioassay Survival Benchsheet

SOP TA-07.05 Method: EPA 821-R-02-013

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

Facility: _____

LIMS Sample #:_____ (for lab sample #1)

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

Pipet used for feeding = P1

Loaded by: _____

Verified by:_____

Comments:

FDEP Biology Laboratory-Toxicicty Section
Chronic Bioassay Survival Benchsheet

SOP TA-07.05 Method: EPA 821-R-02-013

Facility: _____ Start Date: _____ Time: _____

LIMS Sample #:_____ (for lab sample #1) End Date: _____ Time: _____

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

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

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic Bioassay Survival Benchsheet

SOP TA-07.05 Method: EPA 821-R-02-013

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

Facility: _____

LIMS Sample #:_____ (for lab sample #1)

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													

s = split brood

(#) = 4th brood (not counted)

*Day 0 is test initiation day

X = Dead (original organism)

Comments:

FDEP Biology Laboratory- Chronic Bioassay Parameter Benchsheet

Method: EPA 821-R-02-013
S OP TA-07.05

Facility:_____

LIMS Sample #:_____ (for lab sample # 1) *Ceriodaphnia dubia* Parameters

Replicate M = "Meter" vial, a surrogate vial for 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 (Sample 1)	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 1 (Sample 1)	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 2 (Sample 2)	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 3 (Sample 2)	Control	M									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										

Conc. = Concentration, Temp = Temerature, DO = Dissolved oxygen

Comments:

FDEP Biology Laboratory-Chronic Bioassay Parameter Benchsheet

Method: EPA 821-R-02-013
SOP TA-07.05

LIMS Sample #_____ (for lab sample # 1) *Ceriodaphnia dubia* Parameters

Replicate M = "Meter" vial, a surrogate vial for 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 (Sample 3)	**Control**	**M**									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 5 (Sample 3)	**Control**	**M**									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 6 (Sample 3)	**Control**	**M**									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 7 (Sample 3)	**Control**	**M**									
		M									
		M									
		M									
		M									
		M									
	Measured by:										
	Recorded by:										
Day 8 (Sample 3)	**Control**										
	Measured by:										
	Recorded by:										

Comments:

Conc. = Concentration
Temp = Temperature
DO = Dissolved oxygen

FDEP Laboratory-Toxicity Section
Chronic Bioassay Instrument Code Sheet

Method: EPA 821-02-013
SOP TA-07.05

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: