FDEP Biology Laboratory - YCT Suitability Bench Sheet

Method: EPA-821-R-02-012
SOP TA-7.05

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

Test Species: *Ceriodaphnia dubia*
(SOP: TA-07.05 and TA-01.01, EPA821-R02-013, Method:2002.0)

Diluent	Batch #/LIMS ID #	Days Used
MHWCD		
MHWCD		

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

Feeding**: Prior to test and daily. C. dubia fed 0.2 ml of *YCT and *P. subcapitata* in a 1:1 ratio.
*YCT= yeast, cereal leaves and trout chow
** Pipet used for feeding: P1

Organism Age: _____

Organism Batch #: _____

Stats	Mean neonates per female	% survival
Reference YCT		
New YCT		

Stats done by: **Verified by:**

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

Test Randomizer #:	
Replicate	Loaded from culture vial
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Chamber Size: 30 mL
Test Volume: 20 mL

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

Reviewer:_____

Comments:

FDEP Biology Laboratory-Toxicity Section
SRT Water Quality Information Sheet

Method: EPA-821-R-02-012

SOP TA-7.05

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)			FISCHER	TA-06.36		
Days Used						

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

Comments:

FDEP Biology Laboratory - Chronic C. dubia YCT QC Bench Sheet

Ceriodaphnia dubia Survival and Reproduction
SOP TA-7.05; Method: EPA-821-R-02-012

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

YCT Batch	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organisms	Neonates per female
	0*													
	1													
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total													

YCT Batch	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organisms	Neonates per female
	0*													
	1													
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total													

Organisms loaded by:_____

Day	Counted/ verified by:	Concentrations prepared by:	Fed by/time
0			
1			
2			
3			
4			
5			
6			
7			
8			

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

Comments:

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

FDEP Biology Laboratory - Chronic C. dubia YCT QC Bench Sheet

Ceriodaphnia dubia

SOP TA-7.05; Method: EPA-821-R-02-012

Parameters

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

Test Day ↓	YCT Batch	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		M									
		M									
	Measured by:										
	Recorded by:										
Day 1		M									
		M									
	Measured by:										
	Recorded by:										
Day 2		M									
		M									
	Measured by:										
	Recorded by:										
Day 3		M									
		M									
	Measured by:										
	Recorded by:										
Day 4		M									
		M									
	Measured by:										
	Recorded by:										
Day 5		M									
		M									
	Measured by:										
	Recorded by:										
Day 6		M									
		M									
	Measured by:										
	Recorded by:										
Day 7											
	Measured by:										
	Recorded by:										

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: