# 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<br>LIMS ID #<br>_____<br>Batch #<br>_____ | MHWCD<br>LIMS ID #<br>_____<br>Batch #<br>_____ | Method | SOP | Transcribed By: | Transcription Checked by: |
|---|---|---|---|---|---|---|
| **pH** (SU) | | | FISCHER | TA-06.43 | | |
| **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:**