



## Instructions for Catalog # AQC017 USEPA Test Code 43

Revision 090119

**Organism:** Mysid (*Mysidopsis bahia*, *Americamysis bahia*)

**Test Conditions:** 7-Day Chronic, Daily Renewal, Synthetic Seawater (SSW)

### Description:

- This reference toxicant is designed for the Mysid (*Mysidopsis bahia*, *Americamysis bahia*), 7-Day Chronic, Daily Renewal, Synthetic Seawater (SSW), Survival and Growth Test (i.e., USEPA Test Code 43, USEPA Method Code 1007.0).
- This reference toxicant is packaged in a 500 mL bottle containing approximately 500 mL of standard concentrate.
- This concentrate can be stored at room temperature.
- This product is intended to be used as a quality control check of the entire analytical process for the analytes/matrix included in the standard.
- The dilution instructions below represent the minimum suggested sample size for this product. Using a smaller sample size may invalidate the assigned value and/or uncertainty shown on the certificate of analysis.
- The certified values apply to the diluted sample after following the stated dilution instructions.

### Helpful Hints:

- This reference toxicant has been prepared as a concentrate and must be diluted prior to analysis to prepare a “simulated” effluent (hereafter referred to as the effluent).
- This reference toxicant must be diluted with synthetic seawater (SSW), prepared from Millipore Milli-Q® deionized water (or equivalent) and artificial sea salts, as specified in the current version of the USEPA methods manual.
- The diluted effluent should be utilized as soon as possible after preparation.

### Instructions:

1. Add approximately 1.8 L of synthetic seawater (SSW) to each of two clean, dry, 2.0 Liter, class A volumetric flasks.
2. Shake the reference toxicant concentrate bottle prior to opening.
3. Using a clean, dry, class A volumetric pipet, transfer 20 mL of the reference toxicant concentrate into each 2.0 L flask.
4. Dilute each 2.0 L flask to final volume using SSW.
5. Cap each flask and mix well.
6. The total effluent volume is 4.0 Liters.

*The effluent prepared according to these instructions represents the 100% effluent. See below for secondary dilution instructions:*

1. The first 2 L flask is your 100% effluent for testing.
2. Dilute the second flask with 2.0 L of SSW and mix. This is your 50% effluent sample.
3. Continue diluting half of each sample with the same volume of SSW to make your 25%, 12.5% and 6.25% effluent dilutions, which represent all five test dilutions.
4. You are now ready to proceed with the test following your normal procedures.
5. All five test dilutions must be freshly prepared each day of the testing period.

**Safety:**

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