

Microcystins-DM ELISA

Sample Preparation for Brackish Water or Seawater

1. Intended Use

For the preparation of brackish water or seawater samples for analysis in the ABRAXIS® Microcystins-DM ELISA.

2. Sensitivity

0.165 ppb in brackish water or seawater

3. Materials and Reagents Required

4 mL glass vials with Teflon-lined caps

Micropipettes with disposable plastic tips

Vortex mixer

Timer

ABRAXIS® Microcystins-DM Seawater Sample Treatment Solution (PN 529913)

ABRAXIS® Microcystins-DM ELISA Kit (PN 522015)

4. Notes and Precautions

This procedure is intended for use with brackish water or seawater samples. Other matrices should be thoroughly validated before use with this procedure.

5. Procedure

5.1 Add 1 mL of brackish water or seawater sample to a clean, appropriately labeled 4 mL glass vial.

5.2 Add 100 µL of ABRAXIS® Microcystins-DM Seawater Sample Treatment Solution. Vortex for 1 minute.

5.3 Incubate at room temperature for 30 minutes. The sample can then be analyzed using the ABRAXIS® Microcystins-DM ELISA Kit.

6. Evaluation of Results

The Microcystins concentration in samples is determined by multiplying the ELISA results by a factor of 1.1. Samples showing a concentration lower than standard 1 (0.15 ppb) should be reported as containing < 0.165 ppb of Microcystins. Samples showing a higher concentration than standard 5 (5.0 ppb) can be reported as containing > 5.5 ppb of Microcystins or diluted further and re-analyzed to obtain an accurate quantitative result.

7. Performance Data

Recovery

Samples containing various concentrations of seawater were spiked with Microcystin-LR, prepared as described above, and then analyzed using the Microcystins-DM Assay. Average recovery was 110.0%.

8. For ordering or technical assistance contact:

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