Caffeine in Brackish Water or Seawater
Sample Preparation

1. Intended Use
For the preparation of brackish water or seawater samples for analysis in the ABRAXIS® Caffeine ELISA.

2. Sensitivity
1.75 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
ABRAXIS® Caffeine ELISA Kit (PN 515575)

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 900 µL of Caffeine Sample Diluent (provided in the Caffeine ELISA Kit) to a clean, appropriately labeled 4 mL glass vial.
5.2 Add 100 µL of brackish water or seawater sample to the vial.
5.3 Vortex thoroughly.
5.4 Analyze diluted sample using the ABRAXIS® Caffeine ELISA Kit.

6. Evaluation of Results
The Caffeine concentration in samples is determined by multiplying the ELISA results by a factor of 10. Samples showing a concentration lower than standard 1 (0.175 ppb) should be reported as containing < 1.75 ppb of Caffeine. Samples showing a higher concentration than standard 5 (5.0 ppb) should be reported as containing > 50 ppb of Caffeine or diluted further and re-analyzed to obtain an accurate quantitative result.

7. Performance Data
Recovery
Seawater samples were spiked with various amounts of Caffeine, prepared as described above, and then analyzed usingthe ABRAXIS® Caffeine ELISA Kit. Average recovery was 103%.

8. For ordering or technical assistance contact:
Gold Standard Diagnostics
795 Horsham Road
Horsham, PA 19044
WEB: www.abraxiskits.com
Phone: (215) 357 3911
Fax: (215) 357 5232
Ordering: info.abraxis@us.goldstandarddiagnostics.com
Technical Support: support.abraxis@us.goldstandarddiagnostics.com

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