Saxitoxin (PSP) Screening in Shellfish Tissue
Shipboard Application

1. Intended Use
For the detection of Saxitoxin (PSP) in shellfish tissue using ABRAXIS® Saxitoxin (PSP) ELISA Kit (PN 52255SB).

2. Range of Detection
0.01 - 0.06 ng/mL (ppb). Standards provided are labeled in STX equivalents: 0, 20, 40, 80, and 120 µg/100g, with a control at 60 µg/100g. Samples with higher concentrations must be diluted further and re-analyzed

3. Materials Required (Not Provided)
Blender to homogenize shellfish tissue
Extraction solvents (70% Isopropyl Alcohol, 5% Acetic Acid)
50 mL Graduated Centrifuge Tubes
Coffee Filter and/or Paint Filter to filter homogenate

4. Notes and Precautions
To eliminate matrix interference from shellfish tissue to be tested for the presence of Saxitoxin (PSP), samples must be prepared and diluted in Sample Buffer (provided in pre-dispensed vials in accessory kit).

5. Procedure
5.1 Prepare the shellfish tissue samples as described in Section G. Preparation of Sample (Mussels) up tostep 4/Section H. Alternative Sample Preparation up to step 5 of ABRAXIS® Saxitoxin (PSP) kit insert, or follow second alternative extraction method provided by Gold Standard Diagnostics.

5.2 Dilution 1: Add 100µL of sample extract to vial with black cap provided in accessory kit (1:100 dilution). Cap and shake to mix.

5.3 Dilution 2: Transfer 100µL of Dilution 1 to vial with white cap (1:100). Cap and shake to mix. Thedilution factor will then be 1:20,000 due to the initial dilution during extraction.

5.4 The sample is now ready to analyze according to the procedure described in Section C. Assay Procedure of ABRAXIS® Saxitoxin (PSP) kit insert.

6. Data Analysis
Follow procedure for use of photometric analyzer provided in reagent kit, PSP Ship Board Reader Operation.

7. For ordering or technical assistance contact:
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