

## **Melamine in Soy Sauce Sample Preparation**

### **1. Intended Use**

For the detection of Melamine in soy sauce

### **2. Range of Detection**

2,000-50,000 ng/mL (ppb). Samples with higher concentrations must be diluted further and re-analyzed.

### **3. Materials Required (Not Provided)**

Pipettes capable of delivering 25, 100 and 1000  $\mu$ L

Sonicator or vortexer

Centrifuge capable of spinning at 3,000 x g

Centrifuge tubes

Glass vials with Teflon lined caps

ABRAXIS<sup>®</sup> Melamine Sample Extraction Suspension (PN 50005E)

ABRAXIS<sup>®</sup> Melamine ELISA Kit (PN 50005B)

### **4. Notes and Precautions**

- To eliminate matrix interference from soy sauce to be tested for the presence of Melamine, samples must be prepared and diluted in Sample Extraction Suspension.
- Sample Extraction Suspension should be thoroughly mixed immediately prior to use.

### **5. Procedure**

- 5.1. Add 25  $\mu$ L of the soy sauce into 2.5 mL of ABRAXIS<sup>®</sup> Melamine Sample Extraction Suspension in a centrifuge tube.
- 5.2. Using a shaking platform, shake for 10 minutes (alternatively, sample can be vortexed several times during the 10 minute incubation)
- 5.3. Centrifuge at approximately 3,000 x g for 5 minutes.
- 5.4. The sample (top layer) is now ready to analyze according to the procedure described in the ABRAXIS<sup>®</sup> Melamine Kit package insert.

### **6. Evaluation of Results**

Results obtained for soy sauce prepared as described above must be multiplied by a factor of 100 to account for the sample dilution. Only use results within the analytical range of the assay (20-500 ppb). Results lower than lowest standard (20 ppb) should not be multiplied by dilution factor but should be reported as < 2,000 ppb. Results above the highest standard must be diluted and re-analyzed.

### **7. Performance Data**

The sample preparation procedure detailed above was used with soy sauce spiked with various amounts of Melamine. Average recovery was 108%.

### **8. For ordering or technical assistance contact**

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Date this Technical Bulletin is effective: 05/16/2024

Version: 01