

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 μ L

Sonicator or vortexer

Centrifuge capable of spinning at 3,000 x g

Centrifuge tubes

Glass vials with Teflon lined caps

ABRAXIS[®] Melamine Sample Extraction Suspension (PN 50005E)

ABRAXIS[®] 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 μ L of the soy sauce into 2.5 mL of ABRAXIS[®] 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[®] 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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