

Melamine in Serum Sample Preparation

1. Intended Use

For the detection of Melamine in serum: chicken, porcine.

2. Range of Detection

100-2,500 ng/mL (ppb). Samples with higher concentrations must be diluted further and re-analyzed.

3. Materials Required (Not Provided)

Pipettes capable of delivering 200 and 800 μ L

Glass vials with Teflon lined caps

Methanol

10% MeOH/20 mM PBS, pH 7.2-7.4

ABRAXIS[®] Melamine ELISA Kit (PN 50005B)

4. Preparation of Solutions

10% MeOH/20 mM Phosphate Buffered Saline (PBS), pH 7.4: To 800 mL of distilled or deionized water, add: Sodium phosphate dibasic anhydrous 2.277 g; Sodium phosphate monobasic monohydrate 0.548 g; Sodium chloride 18.0 g, add 100 mL of methanol and then bring to 1 L with distilled or deionized water, pH 7.2-7.4.

5. Notes and Precautions

To eliminate matrix interference from serum to be tested for the presence of Melamine, samples must be diluted in 10% MeOH/20 mM PBS.

6. Procedure

6.1. Serum samples should be diluted 1:5 in 10% MeOH/20 mM PBS. For example, adding 200 μ L of serum to 800 μ L of 10% MeOH/20 mM PBS.

6.2. The sample is now ready to analyze according to the procedure described in the ABRAXIS[®] Melamine ELISA Kit package insert.

7. Evaluation of Results

Results obtained for serum prepared as described above must be multiplied by a factor of 5 to account for the sample dilution. Only use results within the analytical range of the assay (20-500 ppb). Results lower than the lowest standard (20 ppb) should not be multiplied by a dilution factor and should not be reported as negative, but should be reported as < 200ppb Melamine detected. Results above the highest standard must be diluted and re-analyzed.

8. Performance Data

The sample preparation procedure detailed above was used with serum samples spiked with various amounts of Melamine. Recoveries were between 104 - 122%.

7. For ordering or technical assistance contact

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