

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

Eurofins Abraxis Melamine ELISA Kit (PN 50005B)

4. Preparation of Solutions

4.1. 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

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.

The sample is now ready to analyze according to the procedure described in the Eurofins Abraxis Melamine 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%.

9. Assistance

For ordering or technical assistance contact:

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