

Infant Formula (Powder) Sample Preparation For Analysis Using the Abraxis Melamine ELISA Kit

1. Intended Use

For the detection of Melamine in powdered infant formula.

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 100 and 900 μ L

Glass vials with Teflon lined caps

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

4. Notes and Precautions

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

5. Procedure

Prepare the infant formula as indicated on sample package substituting 10%MeOH/20mM PBS for the water normally used to reconstitute the formula. For example, infant formula which should be prepared at a ratio of 8.6 grams of formula per 2 ounces (60mL) of water should be prepared as 8.6 grams of formula into 2 ounces (60mL) of 10%MeOH/20mM PBS. Reconstituted formula should then be diluted 1:5 in 10%MeOH/20mM PBS.

The sample is now ready to analyze according to the procedure described in the Abraxis Melamine Kit package insert.

6. Evaluation of Results

Results obtained for powder form infant formula 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 lowest standard (20 ppb) should not be multiplied by dilution factor but should be reported as < 100 ppb. Results above the highest standard must be diluted and re-analyzed.

7. Performance Data

The sample preparation procedure detailed above was used with powdered infant formula (non-recalled) spiked with various amounts of Melamine. Average recovery was 104.9%.

8. Assistance

For ordering or technical assistance contact:

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