

Glyphosate in Pureed Baby Food Sample Preparation

1. Intended Use

For the detection of Glyphosate in pureed baby food products.

2. Sensitivity

7.5 ppb in matrix

3. Materials and Reagents Required

Analytical balance Microcentrifuge tubes, 2.0 mL Microcentrifuge capable of spinning at 8,000 x g or 10,000 rpm Glass vials – 4 mL and 20 mL with Teflon-lined caps Micropipettes with disposable plastic tips Deionized water ABRAXIS® Glyphosate Clean-up Reagent (PN 500094) Serological pipettes, 5 mL or 10 mL Rotator and/or shaker Vortex mixer ABRAXIS® Glyphosate Sample Diluent (PN 500082) ABRAXIS® Glyphosate ELISA kit (PN 500205)

4. Notes and Precautions

This procedure is intended for use with pureed baby food products. Other matrices should be thoroughly validated beforeuse with this procedure.

- Analysis should be performed with the ABRAXIS® Glyphosate Plate ELISA Kit as soon as possible after extraction. Samples should not sit more than one day in plastic microcentrifuge tubes before being diluted and analyzed.
- This procedure is for research use only. It is not intended for diagnostic procedures.

5. Procedure

- 5.1 Measure 0.5 g of sample into an appropriately labeled 20 mL glass vial.
- 5.2 Add 10 mL of deionized water to the sample (1:20 dilution).
- 5.3 Vortex vigorously for 10 15 seconds. Place sample on rotator or shaker for 10 minutes.
- 5.4 Remove from rotator or shaker and allow the sample to settle for at least 2 minutes.
- 5.5 Transfer 1.5 mL of the sample to an appropriately labeled 2.0 mL microcentrifuge tube containing 50 mg of ABRAXIS[®] Glyphosate Clean-up Reagent and vortex for 30 seconds.
- 5.6 Centrifuge for 5 minutes at $\sim 8,000$ x g. Make sure the centrifuge is properly balanced.
- 5.7 Add 800 µL of ABRAXIS® Glyphosate Sample Diluent to an appropriately labeled 4 mL glass vial. Add 200 µL of the supernatant (from 5.6) to the ABRAXIS® Glyphosate Diluent in the vial (1:5 dilution). Vortex.
- 5.8 This will then be analyzed as sample, see *Derivatization of Standards*, *Control and Samples* in the Test Preparation section of the ABRAXIS® Glyphosate Plate ELISA Kit user's guide.

6. Evaluation of Results

The ELISA results must be multiplied by a factor of 100 to account for the necessary dilution. Samples showing a concentration lower than Standard 1 (0.075 ppb) should be reported as < 7.5 ppb of Glyphosate. Samples showing a higher concentration than Standard 5 (4.0 ppb) can be reported as > 400 ppb or diluted further and re-analyzed to obtain an accurate quantitative result.

7. For ordering or technical assistance contact: Gold Standard Diagnostics Phone: (215) 357 3911 124 Railroad Drive Fax: (215) 357 5232 Warminster, PA 18974 Ordering: info.abraxis@us.goldstandarddiagnostics.com Technical Support: support.abraxis@us.goldstandarddiagnostics.com WEB: www.abraxiskits.com

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