Glyphosate in White Granulated Sugar
Sample Preparation

1. Intended Use
For the detection of Glyphosate in white granulated sugar.

2. Sensitivity
0.75 ppb in matrix

3. Materials and Reagents Required
Tubes, centrifuge tubes, or bottles to store at least 15 mL
Serological pipettes, 5 mL or 10 mL
Deionized water
ABRAXIS® Glyphosate ELISA kit (PN 500205)
Rotator and/or shaker (optional)
Glass vials – 4 mL with Teflon-lined caps (optional)
Vortex mixer (optional)

4. Notes and Precautions
This procedure is intended for use with white granulated sugar. Other matrices should be thoroughly validated before use with this procedure. This procedure is for research use only. It is not intended for diagnostic procedures.

5. Extraction Procedure
5.1 Weigh 1.0 g of white granulated sugar to 15 mL tube/bottle.
5.2 Add 10 mL of deionized water to sample (10-fold dilution).
5.3 Shake or mix until the sample has dissolved. Optional: vortex vigorously or put sample on rotator or shaker for 5 minutes or until dissolved.
5.4 Derivatize the sample according to Section D Test Preparation in step 7 of *Derivatization of Standards, Control and Samples* instructions of the ABRAXIS® Glyphosate ELISA kit.
5.5 Perform assay as noted in Section F Assay Procedure instructions provided in the kit.

6. Evaluation of Results
The ELISA results must be multiplied by a factor of 10 to account for the necessary dilution. Samples showing a concentration lower than Standard 1 (0.075 ppb) should be reported as < 0.75 ppb of Glyphosate. Highly contaminated samples (those outside of the calibration range of the assay) must be diluted and re-analyzed to obtainan accurate quantitative result.

7. For ordering or technical assistance contact
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