

## **Glyphosate in Granulated Sugar Sample Preparation for Strip Test**

### **1. Intended Use**

For the detection of glyphosate in granulated sucrose sugar.

### **2. Sensitivity**

18 ppb in matrix

### **3. Materials and Reagents Required**

Analytical balance

15 mL or greater volume size of plastic/glass bottles or vials

Serological pipette or graduated cylinder

Disposable pipettes (optional)

Micropipettes with disposable plastic tips (optional)

Vortex mixer (optional)

Rotator and/or shaker (optional)

Timer

Deionized or distilled water

ABRAXIS<sup>®</sup> Glyphosate Strip Test (PN 500095 [20T]; PN 500098 [5T])

### **4. Notes and Precautions**

This procedure is intended for use with granulated sucrose sugar. Other matrices should be thoroughly validated before use with this procedure.

### **5. Sample Preparation Procedure**

5.1 Weigh 0.5 g of sample into an appropriately labeled bottle or vial.

5.2 Add 10 mL of deionized or distilled water. Vortex, shake, or place onto rotator to mix until dissolved.

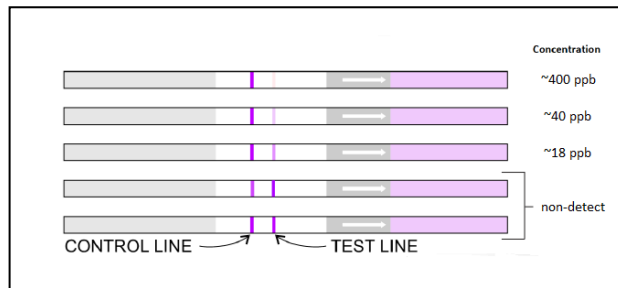
5.3 Remove sample bottle/vial from the rotator or shaker. Proceed to Sections E (Test Preparation) and F (Testing of Samples) in the ABRAXIS<sup>®</sup> Glyphosate Strip Test Kit user's guide.

### **6. Evaluation of Results**

Granulated sugar sample concentration is determined by comparison of the intensity of the test line to the intensity of the control line on the same test strip. Although control line intensity may vary, a visible control line must be present for results to be considered valid. Test strips with a test line which is darker than or of equal intensity to the control line indicates a result which is below the limit of detection of the test. Test strips with a test line which is lighter than the control line indicates a result which is between 18 ppb and 400 ppb. Test strips with a very faint test line or no test line visible indicates a result which is > 400 ppb. Results should be determined within 5-10 minutes after completion of the strip test procedure. Determination made using strips which have dried for more or less than the required time may be inaccurate, as line intensities may vary with drying time.

<u>Control Line</u>	<u>Test Line</u>	<u>Interpretation</u>
No control line present	No test line present	Invalid result
Control line present	Very faint or no test line present	>400 ng/mL (ppb)
Control line present	Moderate intensity test line present	Between 18 and 400 ng/mL (ppb)

The appearance of test strips may also be compared to the illustration below to determine approximate sample concentration ranges. Please note that the illustration is intended for the demonstration of test line to control line intensity only. Results should not be determined by comparing the intensity of test lines from test strips to the test line intensity of the illustration, as the overall intensity of test strips may vary slightly with different lots of reagents. To obtain semi-quantitative results in the range of 0-400 ppb, solutions of known Glyphosate concentration (control solutions) must be tested concurrently with samples. Sample test line intensities can then be compared with control solution test line intensities, yielding approximate sample concentrations. Do not use strips run previously to determine semi-quantitative sample concentrations, as test line intensities may vary once strips are completely dry.



## 7. Performance Data

The ABRAXIS® Glyphosate Strip Test for granulated sugar samples will detect in the range of 18 ppb or higher due to the 20-fold dilution required during sample preparation. At this level, the test line exhibits moderate intensity. At levels greater than 400 ppb, the test line is faint or not visible.

## 8. For ordering or technical assistance contact:

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