

Glyphosate in Wine Sample Preparation for Strip Test

1. Intended Use

For the detection of Glyphosate in wine.

2. Sensitivity

100 ppb in matrix

3. Materials and Reagents Required

Serological pipette or graduated cylinder

Disposable pipettes (optional)

Micropipettes with disposable plastic tips (optional)

Vortex mixer (optional)

Deionized or distilled water

Appropriate size plastic or glass bottles or vials with caps

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

4. Notes and Precautions

This procedure is intended for use with wine samples only. Other matrices should be thoroughly validated before use with this procedure.

5. Sample Preparation Procedure

5.1 Dilute 60 µL of wine sample in 12 mL of deionized or distilled water. Thoroughly homogenize sample via inverting or vortexing.

5.2 Proceed to Sections E (Test Preparation) and F (Testing of Samples) in the ABRAXIS® Glyphosate Strip Test Kit user's guide.

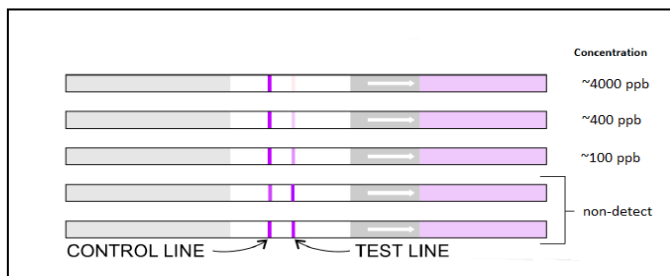
6. Evaluation of Results

Wine 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 indicate 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 100 ppb and 4000 ppb. Test strips with a very faint test line or no test line visible indicate a result, which is > 4000 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	>4000 ng/mL (ppb)
Control line present	Moderate intensity test line present	Between 100 and 4000 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 0-4000 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 wine samples will detect in the range of 100 ppb or higher due to the 200-fold dilution required during sample preparation. At this level, the test line exhibits moderate intensity. At levels greater than 4000 ppb, the test line is faint or not visible.

8. For ordering or technical assistance contact

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