

Trifluralin Spiking Solution Preparation

1. Intended Use

For the preparation of a 50 ppb Trifluralin spiking solution for use with the ABRAXIS® Trifluralin ELISA.

2. Materials and Reagents Required

Trifluralin (stock powder)
Analytical balance with 0.0001 g accuracy
100 mL glass volumetric flasks (2)
Micropipette with disposable plastic tips
Methanol (reagent grade)
ABRAXIS® Trifluralin ELISA Kit

3. Notes and Precautions

Trifluralin will adsorb to sample containers. As they show a decreased level of adsorption, glass vials are recommended. Once prepared, Trifluralin spiking solutions should be used immediately. Unused portions should be stored frozen.

4. Procedure

- 4.1 Weigh 2.5 mg (0.0025 g) of the Trifluralin stock powder into a clean 100 mL glass volumetric flask labeled “25 ppm Trifluralin in methanol.”
- 4.2 Add methanol to the flask until the 100 mL graduation mark is reached. Cap tightly and mix thoroughly by inverting repeatedly.
- 4.3 Label a second clean, 100 mL glass volumetric flask “50 ppb Trifluralin Spiking Solution.” Add approximately 15 mL of methanol to the flask.
- 4.4 Using the micropipette and a clean disposable tip, add 200 µL of the 25 ppm Trifluralin solution to the second flask. Add methanol to the second flask until the 100 mL graduation mark is reached. Cap tightly and mix thoroughly by inverting repeatedly. Use the 50 ppb Trifluralin Spiking Solution for spiking QA samples.

5. For ordering or technical assistance contact:

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