

Water Quality Testing



EnviroGard[®]

EnviroGard[®] Triazine Tube

Features

- The first environmental immunoassay format to be made commercially available
- Broad screen for triazine family of herbicides including atrazine
- Rapid field method for the analysis of drinking and environmental water samples
- Semi-Quantitative data results
- Test up to 6 tubes at one time
- Test results in about 10 minutes
- Coated tube immunoassay

Test Result Type

Semi-Quantitative data.

Samples per Kit

20 Tube Test Kit

Up to 12 samples

Assay Range

Test Range:

0.1 and 1.0 ppb

LDD = 0.053 ppb

Methods

Methods exist for water and a variety of other matrices.

Sampling Time

“Sample-to-Data” in about 10 minutes.



Water Quality Testing

PRODUCT PROFILE

EnviroGard[®]

Basic Test Procedure

- Add 160 μ L of reference, negative control or sample to the tube.
- Add four drops of enzyme conjugate.
- Incubate for 5 minutes.
- Decant and wash four times.
- Add four drops of substrate and chromogen.
- Incubate 2 minutes.
- Stop the reaction and interpret results.

Specificity

The EnviroGard Triazine Test Kit does not differentiate between atrazine and closely related compounds, but detects their presence to differing degrees. The chart below shows the approximate Lower Limits of Detection (LDD), for the cross-reacting compounds.

Compound	LDD (ppb)
Atrazine	0.053
Ametryn	0.063
Propazine	0.001
Prometryn	0.076
Prometon	0.044
Simazine	3.17
Terbutylazine	0.010
Desethyl Atrazine	0.017
Cyanazine	0.994
2-Hydroxy Atrazine	0.120
Desisopropyl Atrazine	2.31

Test Kit Components

- 20 antibody-coated test tubes
- 1 vial of negative control
- 1 vial of atrazine-enzyme conjugate
- 1 vial of 0.1 atrazine calibrator
- 1 vial of 1.0 atrazine calibrator
- 1 test tube rack

Storage & Precautions

- Shelf life is typically one year from date of manufacture, with specific kit expiration date information provided on product packaging.
- Reagents must be stored at 39° to 46°F (4° to 8°C) when not in use.
- Kits must be brought to 64° to 81°F (18° to 27°C) before use.
- Do not expose color solution to direct sunlight.

Other Required Materials

- Disposable-tip pipette which will measure 160 μ L
- Timer
- Glass tubes or vials for calibrator preparation
- Tap or distilled water for rinsing tubes

Ordering Information

Triazine EnviroGard Test Kit pn. 72100



Strategic Diagnostics Inc.
111 Pencader Drive
Newark, Delaware 19702-3322 USA
www.sdix.com