

**Prod. no. L41000401**  
**Product Description**  
**Atrazine ELISA Kit**

**Atrazine** is a broad-leaf, pre-emergence herbicide. It is one of the most widely used herbicides around the world. Atrazine is the leading member of a class of triazine ring-containing herbicides that includes simazine and terbutylazine. Atrazine has been found to be less biodegradable than other less substituted s-triazine ring compounds with a half life from 1 week to 1 year in different soils. Because of their relative wide application, their relative high persistence, and their ability to leach through the soil, they can be detected in rain, surface water and ground water. The application of Atrazine is prohibited in several countries, in the U.S., according to the USEPA SWDA drinking water guidelines, the MCL for Atrazine is not allowed to exceed 3 ppb.

This ELISA test kit detects Atrazine and related Triazines in environment samples at the ppt levels and does not cross-react with non-related agricultural compounds.

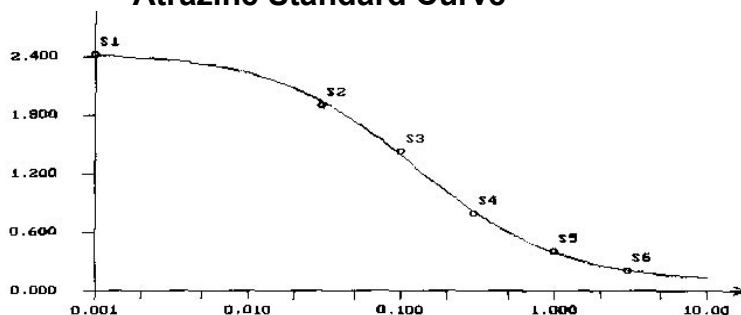
**The assay range** is between 0.03 ppb and 3 ppb and can be used for a wide range of environmental samples (water, soil, sediment, fish plasma, etc.).

**Direct sample.** No time-consuming sample extraction or the use of hazardous organic solvents.

**Total time** for measurement is less than 50 minutes.

**The kit, a 96-well** microplate format with ready to use reagents, enables fast assay kinetics, super sensitivity, and the simultaneous measurement of multiple samples at a reasonable cost.

**Atrazine Standard Curve**



Samples containing Atrazine within the dynamic range (0.03 - 3.0 ppb) can be directly tested in the assay after filtration.

## Basic Test procedure

- Add 50 uL of sample, and 50 uL enzyme conjugate. Swirl to mix.
- Incubate for 30 minutes.
- Decant and wash.
- Add 100uL of color solution.
- Incubate for 15 minutes.
- Stop the reaction and read color at 450 nm. Quantitate results.

## Cross-reactivity Pattern

Cross-reactivity of the Atrazine ELISA expressed as (%)

<b>Compound</b>	<b>Cross-Reactivity</b>
Atrazine	100
Propazine	81
Simazine	6.9
Ametryn	3.9
Hydroxyatrazine	1.8
Desethylatrazine	1.3
Terbutylazine	1.0

The following compounds demonstrated no reactivity in the Atrazine Assay when tested at concentrations up to 1,000 ppb: aldicarb, aldicarb sulfoxide, aldicarb sulfone, alachlor, benomyl, butachlor, butylate, captan, carbaryl, carbendazim, carbofuran, 2,4-D, 1,3-dichloropropene, dinoseb, MCPA, metolachlor, metribuzin, PCP, picloram, propachlor, terbufos, thiabendazole, thiophanate-methyl.

## Kit Format

Microplate (96T)

Distributed in Europe by  
Biosense Laboratories AS

Kit manufactured by  
Abraxis LLC

[www.biosense.com](http://www.biosense.com)

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