

ENVIROLOGIX Inc. - Human Exposure Monitoring Kits

ATRAZINE MERCAPTURATE (ELISA Kit)

● Intended use

The Envirologix Atrazine Mercapturate In Urine Plate Kit Is Designed For The Quantitative Laboratory Detection Of Atrazine Mercapturate In Human Urine, With An Assay Range From 2.0 To 150 Parts Per Billion (ppb).

● General

The EnviroLogix Atrazine Mercapturate in Urine Plate Kit is a competitive Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, Atrazine Mercapturate residues in the diluted sample compete with enzyme (horseradish peroxidase)-labeled Atrazine for a limited number of antibody binding sites on the inside surface of the test wells. After a simple wash step, the outcome of the competition is visualized with a color development step. As with all competitive immunoassays, sample concentration is inversely proportional to color development.

Darker color = Lower concentration

Lighter color = Higher concentration

The EnviroLogix Atrazine Mercapturate in Urine Plate Kit can be used in the following testing applications:

- Human Exposure Monitoring (Applicators, Handlers, Farm Workers).
- Public Health Screening Programs.
- Health Risk Assessment.

Materials Provided:	Materials Required But Not Provided:
<ul style="list-style-type: none"> - 8 x Strips Of 12 Antibody-Coated Wells each, in plate frame. - 1 x Vial of Negative Control. - 1 x Vial of 2 ppb Atrazine Mercapturate Calibrator (Actual Concentration = 0.04 ppb*). - 1 x Vial of 20 ppb Atrazine Mercapturate Calibrator (Actual Concentration = 0.4 ppb*). - 1 x Vial of 150 ppb Atrazine Mercapturate Calibrator (Actual Concentration = 3.0 ppb*). - 1 x Bottle of Atrazine-Enzyme Conjugate. - 1 x Bottle of 10x Diluent. - 1 x Bottle of Substrate. - 1 x Bottle of Stop Solution. <p>* The difference between the stated and actual concentration is to correct for the 1:50 dilution required for sample preparation.</p>	<ul style="list-style-type: none"> - Disposable Tip, Adjustable Air Displacement pipette which will measure 980 microliters (µL), 150 µL, 100 µL, 50 µL and 20 µL. - Marking Pen (indelible). - Tape or Parafilm. - Timer (15 and 30 minutes). - Cool Tap Or Distilled Water for rinsing wells. - Microtiter Plate Reader or strip reader. - Microtiter Plate Washer (optional). - Twelve-Channel Pipette that will measure 50 µL, 100 µL and 150 µL (optional). - Racked Dilution Tubes for loading samples into the plate with a 12-channel pipette (optional). - Orbital Plate Shaker (optional).

Kit Specifications:

Plate Format:	- 96 Well.
Time Requirement:	- 2 h.
Detection Limit:	- 0.5 ppb.
Quantification Limit:	- 3.0 ppb.
Cross Reaction:	- Atrazine Mercapturate (0.5 ppb).
(Limit Of Detection)	- Atrazine (0.95 ppb).
	- Alachlor Mercapturate (>50000 ppb).
	- Acetochlor Mercapturate (>50000 ppb).
	- Metolachlor Mercapturate (>50000 ppb).
	- Alachlor ESA (>50000 ppb).
	- Acetochlor ESA (>50000 ppb).

Measurement:
Product ID #:

- Metolachlor ESA (>50000 ppb).
- Microtiter Plate Reader or strip reader.
- BP003.