

ENVIROLOGIX Inc. - Environmental & Food Monitoring Kits: Pesticides

METALAXYL (ELISA Kit)

● Intended use

The Envirologix Metalaxyl Plate Kit Is Designed For The Quantitative Laboratory Detection Of Metalaxyl Pesticide Residues In Ground And Surface Water Samples, With An Assay Range From 0.15 To 1.75 Parts Per Billion (Ppb).

● General

The EnviroLogix Metalaxyl Plate Kit is a competitive Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, Metalaxyl pesticide residues in the sample compete with enzyme (horseradish peroxidase) labeled Metalaxyl 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 Metalaxyl Plate Kit can be used in the following applications:

- Source Water Protection.
- Drinking Water Monitoring.
- Treated Effluent Monitoring.
- Run-Off Assessment And Monitoring.
- Point Source Testing.
- Soil Testing.

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 0.1 ppb Metalaxyl Calibrator.- 1 x Vial of 0.4 ppb Metalaxyl Calibrator.- 1 x Vial of 1.75 ppb Metalaxyl Calibrator.- 1 x Bottle of Metalaxyl-Enzyme Conjugate.- 1 x Bottle of Substrate.- 1 x Bottle of Stop Solution.	<ul style="list-style-type: none">- Disposable Tip, Adjustable Air Displacement Pipette that will measure 100 microliters (µL).- Marking Pen (indelible).- Tape or Parafilm.- Timer (1 hour 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 100 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 15 min.
Detection Limit:	- 0.08 ppb (water).
Quantification Limit:	- 0.15 ppb.
Cross Reaction:	- Metalaxyl (0.08 ppb).
(Limit of Detection)	- Dimethenamid (2.4 ppb).
	- Metolachlor (3.2 ppb).
	- Acetochlor (7.9 ppb).
	- Propachlor (46 ppb).
	- Benalaxyl (141 ppb).
	- Alachlor (36 ppb).
Measurement:	- Microtiter Plate Reader or strip reader.
Product ID #:	- EP005.