

# ENVIROLOGIX Inc. - Environmental & Food Monitoring Kits: Pesticides

## ALDICARB (ELISA Kit)

### ● Intended use

The Envirologix Aldicarb Plate Kit Is Designed For The Quantitative Laboratory Detection Of Aldicarb Pesticide Residues In Ground And Surface Water Samples, With An Assay Range From 3 To 100 Parts Per Billion (Ppb).

### ● General

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

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

Materials Provided:	Materials Required But Not Provided:
<ul style="list-style-type: none"><li>- 1 x Antibody-Coated Microwell Plate; 8 removable strips of 12 microwells each, in recloseable foil bag with desiccant.</li><li>- 1 x Negative Control.</li><li>- 1 x 3 ppb Aldicarb Calibrator.</li><li>- 1 x 20 ppb Aldicarb Calibrator.</li><li>- 1 x 100 ppb Aldicarb Calibrator.</li><li>- 1 x Aldicarb - Enzyme Conjugate.</li><li>- 1 x Substrate.</li><li>- 1 x Stop Solution.</li></ul>	<ul style="list-style-type: none"><li>- Distilled Water (or equivalent).</li><li>- Glass Vials or Tubes.</li><li>- Positive-Displacement Pipettor with disposable tips and plungers (capable of delivering 50 microliters (µL)).</li><li>- Pipette capable of delivering 5 milliliters (mL).</li><li>- Disposable Tip, Adjustable Air Displacement Pipette which will measure 50 µL, 100 µL and 150 µL.</li><li>- Marking Pen (indelible).</li><li>- Tape or Parafilm.</li><li>- Timer (1 hour and 30 minutes).</li><li>- Microtiter Plate Reader or strip reader.</li><li>- Microtiter Plate Washer (optional).</li></ul>

### Kit Specifications:

Plate Format:	- 96 Well.
Time Requirement:	- 2 h 15 min.
Limit of Detection:	- 2.6 ppb.
Quantification Limit:	- 4 ppb.
Cross Reaction:	- Aldicarb (2.6 ppb).
(Detection limit)	- Aldicarb-Sulfone (580 ppb).
	- Aldicarb Sulfoxide (3950 ppb).
	- Atrazine (270 ppb).
Standards:	- 3/20/100 ppb.
Measurement:	- Microtiter Plate Reader or Strip Reader.
Product ID #:	- EP002.