

ENVIROLOGIX Inc. - Environmental & Food Monitoring Kits: Pesticides

CYCLODIENES (ELISA Kit)

● Intended use

The Envirologix Cyclodiene Plate Kit Is Designed For The Quantitative Laboratory Detection Of Cyclodiene Pesticide Residues In Ground And Surface Water Samples, With An Assay Range From 1 To 100 Parts Per Billion (Ppb).

● General

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

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

Materials Provided:	Materials Required But Not Provided:
<ul style="list-style-type: none"> - 12 x Strips of 8 Antibody-Coated Wells each, in plate frame. - 1 x Vial of 1 ppb Chlordane Calibrator, 100x Stock Solution (100 ppb in methanol). - 1 x Vial of 10 ppb Chlordane Calibrator, 100x Stock Solution (1 part per million (ppm) in methanol). - 1 x Vial of 100 ppb Chlordane Calibrator, 100x Stock Solution (10 ppm in methanol). - 1 x Bottle of Cyclodiene Sample Diluent. - 1 x Bottle of Chlordane-enzyme Conjugate. - 1 x Bottle of Substrate. - 1 x Bottle of Stop Solution. 	<ul style="list-style-type: none"> - Distilled Water (or equivalent) for preparation of calibrators. - Glass Vials or tubes for preparation of calibrators - Positive-Displacement Pipettor with disposable tips and plungers for preparation of calibrators (capable of delivering 50 microliters (µL)). - Pipette capable of delivering 5 mL. - Disposable Tip, Adjustable Air Displacement Pipette which will measure 50 and 100 µL. - Marking Pen (indelible). - Tape or Parafilm. - Timer (30 minutes). - Cool Tap or Distilled Water for rinsing wells. - Microtiter Plate Reader or strip reader. - Microtiter Plate Washer (optional). - Multi-Channel Pipette that will measure 50 µL and 100 µL (optional). - Racked Dilution Tubes for loading samples into the plate with a multichannel pipette (optional). - Orbital Plate Shaker (optional).

Kit Specifications:

Plate Format:	- 96 Well.
Time Requirement:	- 2 h 15 min.
Limit of Detection:	- 0.5 ppb.
Limit of Quantification:	- 2 ppb.
Cross Reaction:	- Chlordane (0.5 ppb). - Aldrin (0.1 ppb).

Measurement:
Product ID #:

- Dieldrin (0.1 ppb).
- Endosulfan I (0.1 ppb).
- Endosulfan II (0.1 ppb).
- Endrin (0.05 ppb).
- Heptachlor (0.08 ppb).
- Lindane (5 ppb).
- Toxaphene (13 ppb).
- Microtiter Plate Reader or strip reader.
- EP010.