

ENVIROLOGIX Inc. - Environmental & Food Monitoring Kits: Pesticides

METHOPRENE ACID (ELISA Kit)

● Intended use

The Envirologix Methoprene Acid Plate Kit Is Designed For The Quantitative Laboratory Detection Of Methoprene Acid Pesticide Residues In Ground And Surface Water Samples, With A Quantitative Assay Range From 0.015 To 1.0 Parts Per Billion (Ppb).

● General

The EnviroLogix Methoprene Acid Plate Kit is a competitive Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, Methoprene Acid pesticide residues in the sample compete with enzyme (horseradish peroxidase) labeled Methoprene Acid 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 Methoprene Acid 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 0.015 ppb Methoprene Acid Calibrator (100X in methanol). - 1 x Vial of 0.15 ppb Methoprene Acid Calibrator (100X in methanol). - 1 x Vial of 1.0 ppb Methoprene Acid Calibrator (100X in methanol). - 10 x Assay Diluent Concentrate. - 1 x Bottle of Methoprene Acid-Enzyme Conjugate. - 1 x Bottle of Substrate. - 1 x Bottle of Stop Solution. 	<ul style="list-style-type: none"> - Distilled Water (or equivalent) for dilution of assay diluent concentrate. - Glass Vials or tubes for preparation of calibrators. - Glass or Plastic Bottle for the storage of 1X assay diluent. - Graduated Cylinder that can measure 270 mL. - Positive-Displacement Pipettor with disposable tips and plungers for preparation of calibrators (capable of delivering 20 microliters (µL)). - Pipette(s) capable of delivering 2.0 mL. - Disposable Tip, Adjustable Air Displacement pipette which will measure 100 µL. - Marking Pen (indelible). - Tape or Parafilm. - Timer (15 minutes, 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 30 min.
Detection Limit:	- 0.007 ppb (water).

Quantification Limit:

- 0.025 ppb.

Cross Reaction:

- Methoprene Acid (0.007 ppb).

- S-Methoprene (0.5 ppb).

- RS-Methoprene (0.2 ppb).

- S-Hydroprene (847 ppb).

- S-Kinoprene (>1000 ppb).

- Cis-Methoprene (1.6 ppb).

- Kabat (0.5 ppb).

- Dianex (0.533 ppb).

Measurement:

- Microtiter Plate Reader or strip reader.

Product ID #:

- EP016.