

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

## FLUOMETURON (ELISA Kit)

### ● Intended use

The Envirologix Fluometuron Plate Kit Is Designed For The Quantitative Laboratory Detection Of Fluometuron Pesticide Residues In Surface Water Samples, With An Assay Range From 0.05 To 3.5 Parts Per Billion (Ppb). Ground Water Samples May Be Analyzed, But Will Require The Addition Of A Chelating Agent. (For Information Concerning Ground Water Samples Please [Contact Us](#))

### ● General

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

- Run-Off Assessment & Monitoring:
- Surface Water (Ponds, Retention Pools, Streams, Lakes).
- Ground Water.

Materials Provided:	Materials Required But Not Provided:
<ul style="list-style-type: none"><li>- 8 x Strips of 12 Antibody-Coated Wells each, in plate frame.</li><li>- 1 x Vial Negative Control.</li><li>- 1 x Vial of 0.05 ppb Fluometuron Calibrator (in deionized water).</li><li>- 1 x Vial of 0.5 ppb Fluometuron Calibrator (in deionized water).</li><li>- 1 x Vial of 3.5 ppb Fluometuron Calibrator (in deionized water).</li><li>- 1 x Bottle of Fluometuron-Enzyme Conjugate.</li><li>- 1 x Bottle of Substrate.</li><li>- 1 x Bottle of Stop Solution.</li></ul>	<ul style="list-style-type: none"><li>- Disposable Tip Adjustable Air Displacement Pipette which will measure 100 µL.</li><li>- Marking Pen (indelible).</li><li>- Tape or Parafilm.</li><li>- Timer (1 hour and 30 minutes).</li><li>- Cool Tap or Distilled Water for rinsing wells.</li><li>- Microtiter Plate Reader or strip reader.</li><li>- Microtiter Plate Washer (optional).</li><li>- Twelve-Channel Pipette that will measure 100 µL (optional).</li><li>- Racked Dilution Tubes for loading samples into the plate with a 12-channel pipette (optional).</li><li>- Orbital Plate Shaker (optional).</li></ul>

### Kit Specifications:

Plate Format:	- 96 Well.
Time Requirement:	- 2 h 15 min.
Limit Of Detection:	- 0.03 ppb.
Limit Of Quantification:	- 0.07 ppm.
Cross Reaction:	- Fluometuron (0.03 ppb).
(Limit of Detection)	- Chlortoluron (0.28 ppb).
	- Monuron (15 ppb).
	- Diuron (0.13 ppb).
	- Linuron (1.2 ppb).
	- Isoproturon (1355 ppb).
Measurement:	- Microtiter Plate Reader or strip reader.
Product ID #:	- EP009.