

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

## IMIDACLOPRID For Water Testing (ELISA Kit)

### ● Intended use

The Envirologix Imidacloprid Plate Kit Is Designed For The Quantitative Laboratory Detection Of Imidacloprid Pesticide Residues In Ground And Surface Water Samples, With An Assay Range From 0.2 To 6 Parts Per Billion (Ppb).

### ● General

The EnviroLogix Imidacloprid Plate Kit is a competitive Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, Imidacloprid pesticide residues in the sample compete with enzyme (horseradish peroxidase) labeled Imidacloprid 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 Imidacloprid 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.
- Seed Treatment Quality Control.

Materials Provided:	Materials Required But Not Provided:
<ul style="list-style-type: none"><li>- 8 x 12 Antibody-coated wells, in plate frame.</li><li>- 1 x Vial of Imidacloprid Negative Control.</li><li>- 1 x Vial of 0.2 ppb Imidacloprid Calibrator.</li><li>- 1 x Vial of 1 ppb Imidacloprid Calibrator.</li><li>- 1 x Vial of 6 ppb Imidacloprid Calibrator.</li><li>- 1 x Bottle of Imidacloprid-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 <math>\mu</math>L.</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 <math>\mu</math>L (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.
Detection Limit:	- 0.07 ppm.
Quantification Limit:	- 0.3 ppm.
Cross Reaction:	- Imidacloprid. - Imidacloprid Olefin. - DesNitro Imidacloprid. - Imidacloprid Urea. - Thiamethoxam.
Measurement:	- Microtiter Plate Reader or strip reader.
Product ID #:	- EP006.