

ENVIROLOGIX Inc. - Environmental & Food Monitoring Kits: Pesticides

DDT (ELISA Kit)

● Intended use

The Envirologix DDT Plate Kit Is A Quantitative Laboratory Assay For The Detection Of Total DDT Pesticide Residues (Sum Of P,P'-DDT, -DDE, And -DDD) In Soil, With An Assay Range From 0.025 To 0.875 Parts Per Million (Ppm).

● General

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

- Source Water Protection.
- Treated Effluent Monitoring.
- Drinking Water Monitoring.
- Run-Off Assessment & Monitoring.
- Crop And Food 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 vial of Negative Control (methanol). - 1 x Vial of "0.025 ppm" DDT Calibrator (actual concentration 5 ppb in methanol*). - 1 x Vial of "0.1 ppm" DDT Calibrator (actual concentration 20 ppb in methanol*). - 1 x Vial of "0.875 ppm" DDT Calibrator (actual concentration 175 ppb in methanol*). - 1 x Bottle of DDT Assay Diluent. - 1 x Bottle of DDT-enzyme Conjugate Concentrate (100x). - 1 x Bottle of Substrate. - 1 x Bottle of Stop Solution. <p>*The reason for the difference between the stated and actual calibrator concentrations is to account for the 1:5 dilution incurred during sample extraction.</p>	<ul style="list-style-type: none"> - Balance For Weighing Samples - EnviroLogix Soil Extraction Kit, or suitable sealable vessels for sample extraction. - Methanol for sample extraction - Positive displacement pipetter with disposable tips and plungers for dispensing of calibrators and sample extracts (capable of delivering 20 microliters (µL)). - Disposable Tip, Adjustable Air Displacement Pipette(s) which will measure 120, 60 and 100 µL. - Marking Pen (indelible). - Tape or Parafilm. - Timer (1 hour and 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 120, 60 and 100 µL (optional). - Orbital Plate Shaker (optional).

Kit Specifications:

Plate Format:	- 96 Well.
Time Requirement:	- 2 h 15 min.
Limit of Detection:	- 0.023 ppm.
Limit of Quantification:	- 0.05 ppm.
Measurement:	- Microtiter Plate Reader or strip reader.
Product ID #:	- EP020.