

ENVIROLOGIX Inc. - Environmental & Food Monitoring Kits: Pesticides

PCB'S IN SOIL (ELISA Kit)

● Intended use

The Envirologix PCB In Soil Tube Kit Is Designed For Semi-Quantitative Field Screening For PCB'S In Soil. The Kit Is Supplied With Calibrators Equivalent To 1 Part Per Million (Ppm) And 10 Ppm PCB (Arochlor 1254) In Soil. The Assay Range Can Easily Be Extended.

● General

The EnviroLogix PCB in Soil Tube Kit is a competitive Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, PCB in sample extracts compete with enzyme (horseradish peroxidase) labeled PCB for a limited number of antibody binding sites on the inside surface of the test tubes. 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 PCB in Soil Tube Kit can be used in the following applications:

- Initial Site Characterization, Mapping
- Real-Time Testing During Remediation
- Screening Negatives Prior To GC Confirmation

Materials Provided:	Materials Required But Not Provided:
<ul style="list-style-type: none"> - 40 x Antibody-Coated Test Tubes. - 1 x Vial Negative Control. - 1 x Vial 1 ppm Calibrator. - 1 x Vial 10 ppm Calibrator. - 1 x Bottle of PCB-Enzyme Conjugate. - 1 x Bottle of Substrate. - 1 x Bottle of Stop Solution. 	<ul style="list-style-type: none"> - EnviroLogix Soil Extraction Kit. - Methanol (10 milliliter (mL) per sample. - Eppendorf Repeater Pipetter 4780 (Eppendorf cat. No. 2226000-6) or equivalent. - 3, 12.5 mL Combi-Syringes (VWR Cat. No. 40000-008) for the Eppendorf Repeater Pipette. - Gilson Microman M25 Positive Displacement Pipette (available from Rainin) or equivalent. - CP-250 Tips (red) for the Gilson Microman (available from Rainin). - Marking Pen (indelible). - Timer (10 minutes). - Cool Tap Or Distilled Water for rinsing tubes. - Photometer for reading tubes. - Test Tube Rack that can hold up to 20 antibody-coated test tubes securely enough to flick out water. - After Wash Step (contact EnviroLogix for information on obtaining an appropriate rack).

Kit Specifications:

Format:	- 40 Test Tubes.
Time Requirement:	- 1 h.
Detection Limit:	- 1242 (1.7 ppm). - 1248 (0.6 ppm). - 1254 (0.3 ppm). - 1260 (0.3 ppm).
Measurement:	- Microtiter Plate Reader or strip reader.
Product ID #:	- ET013.