

Envirologix Inc. - Environmental & Food Monitoring Kits: Pesticides

PARAQUAT (ELISA Kit)

● Intended use

The Envirologix Paraquat Plate Kit Is Designed For The Quantitative Laboratory Detection Of Paraquat Pesticide Residues In Ground And Surface Water Samples, With An Assay Quantitation Range From 0.04 To 1.2 Parts Per Billion (Ppb).

● General

The EnviroLogix Paraquat Plate Kit is a competitive Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, Paraquat pesticide residues in the sample compete with enzyme (horseradish peroxidase) labeled Paraquat 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 Paraquat 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 Negative Control.- 1 x Vial of 0.04 ppb Paraquat Calibrator (in deionized water).- 1 x Vial of 0.2 ppb Paraquat Calibrator (in deionized water).- 1 x Vial of 1.2 ppb Paraquat Calibrator (in deionized water).- 1 x Bottle of Paraquat-Enzyme Conjugate.- 1 x Bottle of Substrate.- 1 x Bottle of Stop Solution.	<ul style="list-style-type: none">- Disposable Tip Adjustable Air Displacement Pipette which will measure 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).- 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:	- 0.01 ppb.
Quantification Limit:	- 0.05 ppb.
Cross Reaction:	- Paraquat (0.01 ppb). - Diquat (300 ppb).
Measurement:	- Microtiter Plate Reader or strip reader.
Product ID #:	- EP023.