

ENVIROLOGIX Inc. - Environmental & Food Monitoring Kits: Pesticides

BENOMYL / CARBENDAZIM (ELISA Kit)

● Intended use

The Envirologix Benomyl/Carbendazim Plate Kit Is Designed For The Quantitative Laboratory Detection Of Benomyl/Carbendazim Pesticide Residues In Ground And Surface Water Samples, With A Quantitative Assay Range From 0.01 To 0.2 Parts Per Billion (Ppb). See Attached Application Guide For Suggestions On Using This Kit With Food Extracts (E.g. Dried Vine And Tree Fruits).

● General

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

- Broad screening at harvest and during production.
- Screening prior to export to enhance global competitiveness.
- Quality assurance testing to ensure high quality standards, safeguard consumers, and protect brand names.

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 x Vial of 0.01 ppb Carbendazim/MBC Calibrator (100X in methanol).- 1 x Vial of 0.05 ppb Carbendazim/MBC Calibrator (100X in methanol).- 1 x Vial of 0.2 ppb Carbendazim/MBC Calibrator (100X in methanol).- 1 x Vial of Carbendazim-enzyme Conjugate.- 1 x Bottle of Substrate.- 1 x Bottle of Stop Solution.	<ul style="list-style-type: none">- Distilled Water.- Glass Vials or tubes.- Positive-Displacement Pipettor with disposable tips and plungers (capable of delivering 20 microliters (µL)).- Pipette(s) capable of delivering 2.0 ml.- Disposable Tip, Adjustable Air Displacement Pipette which will measure 100 µL.- Marking Pen (indelible).- Tape or Parafilm.- Timer (1 hour, 30 and 15 minutes).- Cool Tap or Distilled Water.- Microtiter Plate Reader or strip reader.

Kit Specifications:

Plate Format:	- 96 Well.
Time Requirement:	- 2 h 30 min.
Limit of Detection:	- 0.04 ppm.
Cross Reaction: (Detection Limit)	- Carbendazim/MBC (0.009 ppb). - Thiabendazole (0.2 ppb). - Thiophanate-Methyl (0.04 ppb). - Thiophanate (0.09 ppb).
Standards:	- 0.01/0.05/0.2 ppb.
Measurement:	- Microtiter Plate Reader or strip reader.
Product ID #:	- EP026.