

ENVIROLOGIX Inc. - GMO Monitoring Kits

YEILDGUARD[®] ROOTWORM CORN QualiPlate[™] (ELISA Kit)

● Intended use

The Enviroligix Quickplate Kit For Yieldgard Rootworm Is Designed For The Qualitative Laboratory Detection Of Cry3Bb Protein In Single Leaf, Single Seed, Or Bulk Seed Samples. This Test Will Detect Cry3Bb Protein Found In 0.1% Yieldgard Rootworm Corn (1 Seed In 1000) And Requires 1 Hour To Run.

● General

This QuickPlate Kit is a “sandwich” Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, **corn** sample extracts are added to test wells coated with antibodies raised against Cry3Bb protein. Any Cry3Bb protein present in the sample extract binds to the antibodies and is then detected by addition of enzyme (horseradish peroxidase) labeled Cry3Bb antibody. After a simple wash step, the results of the assay are visualized with a color development step. Color development increases with increasing Cry3Bb sample concentration from 0.1% to 25% YieldGard Rootworm corn, then levels and drops off.

Light color = Low concentration

Darker color = High concentration

Materials Provided:	Materials Not Provided:
<ul style="list-style-type: none">- 1 x Antibody-Coated 96-Well Plate.- 1 x Vial Of Negative Control Ground Corn.- 1 x Vial Of Positive Control Ground Corn.- 1 x Bottle Of YieldGuard Rootworm Enzyme Conjugate.- 1 x Packet of Wash Buffer Salts.- 1 x Bottle of Substrate.- 1 x Bottle of Stop Solution.	<ul style="list-style-type: none">- Distilled Or Deionized Water for preparing wash/extraction buffer.- Glass Bottles or flasks with 1.2 liter capacity for preparation of 1x Grain Extraction Solution and 1 liter capacity for preparation of Wash/extraction Buffer.- Waring Blender model 31BL91 (or equivalent) glass jar adapter (Eberach # E8495) and 32 oz. Glass mason jars for ground corn samples.- Snap-Cap Tubes and pestles for the extraction of leaf samples (Enviroligix Cat# ACC 002, 100/package).- Centrifuge capable of 5000 x g (optional).- Disposable Tip, Adjustable Air-Displacement Pipettes which will measure 50 and 100 micro liters (µL).- Marking Pen (indelible).- Tape or Parafilm.- Timer.- Microtiter Plate Reader with 450 nm filter.- Wash Bottle, or microtiter plate washer.- Multi-Channel Pipette that will measure 50 and 100 µL (optional).- Racked Dilution Tubes for loading samples into the plate with a multichannel pipette (optional).- Orbital Plate Shaker (optional).

Kit Specifications:

Format:	- 96 Well.
Time Requirement:	- 1 h.
Detection Limit:	- Qualitative results (yes/no) detects 1 seed in 1000.
Measurement:	- Microtiter Plate Reader (450 nm).
Product ID:	- AP015.