

ENVIROLOGIX Inc. - GMO Monitoring Kits

Cry2A - PLATE KIT (ELISA Kit)

● Intended use

The Envirologix Cry2A Plate Kit Is Designed For The Semi-Quantitative Laboratory Detection Of Cry2A Endotoxin In Cotton Leaf Tissue Samples.

● General

The EnviroLogix Cry2A Plate Kit is a “sandwich” format Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, cotton leaf sample extracts are added to test wells coated with antibodies raised against Cry2Aa2 toxin. Any Cry2A protein present in the sample extract bind to the antibodies, and are then detected by addition of enzyme (horseradish peroxidase) labeled Cry2A antibody. After a simple wash step, the results of the assay are visualized with a color development step; color development is proportional to Cry2Aa2 concentration in the sample extract.

Lighter color = Lower concentration

Darker color = Higher concentration

Materials Provided:	Materials Not Provided:
<ul style="list-style-type: none"> - 12 x Strips Of 8 Antibody-Coated Wells each, in plate frame. - 1 x Vial Of Cry2A Negative Control. - 1 x Vial Of 1 ppb Cry2Aa2 Calibrator. - 1 x Vial Of 5 ppb Cry2Aa2 Calibrator. - 1 x Vial Of 10 ppb Cry2Aa2 Calibrator. - 1 x Bottle Of Cry2A-Enzyme Conjugate. - 1 x Bottle Of 5x Extraction/ Dilution Buffer for Bt Plate Kits. - 1 x Packet Of Wash Buffer Salts. - 1 x Bottle Of Substrate. - 1 x Bottle Of Stop Solution. 	<ul style="list-style-type: none"> - Disposable Tissue Extractors, EnviroLogix Cat. # ACC 002 (6 samples are provided in the kit). - Test tubes for dilution of sample extracts. - Disposable Tip, Adjustable Air-Displacement Pipettes which will measure 20, 100, 500 and 1000 micro liters (µL). - Marking Pen (indelible). - Tape or Parafilm. - Timer (15 minutes, 1 hour, and 30 minutes). - Distilled Or Deionized Water for preparing Wash Buffer and diluting 5x Extraction/Dilution Buffer. - Glass Bottles or flasks with 175 mL capacity for storage of 1x Extraction/Dilution Buffer and 1 liter capacity for Wash Buffer. - Microtiter Plate Reader or strip reader. - Wash Bottle, or microtiter plate or strip washer. - Multi-Channel Pipette that will measure 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 Wells.
Time Requirement:	- 2 h 30 min.
Detection Limit:	- 0.52 ppb.
Quantification Limit:	- 0.5 ppm.
Cross-Reaction:	- Cry2Aa2 (0.5 ppb).
(Limit of Detection)	- Cry2Ab (7 ppb).
	- Cry1Ac (>100 ppb).
	- Cry1Ab (>100 ppb).
	- Cry 1C (>1000 ppb).
	- Cry1F (>10 000 ppb).
Measurement:	- Plate Reader 450 nm.
Product ID #:	- AP005.