

ENVIROLOGIX Inc. - GMO Monitoring Kits

Cry1Ab/Cry1Ac Plate Kit (Sandwich ELISA Kit)

● Intended use

The Envirologix Cry1Ab/Cry1Ac Plate Kit Is Designed For The Quantitative Laboratory Detection Of Cry1Ab Or Cry1Ac Residues In Corn And Cotton Leaf Tissue Samples.

● General

The EnviroLogix Cry1Ab/Cry1Ac Plate Kit is a “sandwich” Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, plant leaf sample extracts are added to test wells coated with antibodies raised against Cry1Ab toxin. Any residues present in the sample extract bind to the antibodies, and are then detected by addition of enzyme (horseradish peroxidase) labeled Cry1Ab antibody. After a simple wash step, the results of the assay are visualized with a color development step; color development is proportional to Cry1Ab/Cry1Ac concentration in the sample extract.

Lighter color = Lower concentration

Darker color = Higher concentration

The Envirologix Cry1Ab/Cry1Ac Plate Kit Can Be Used In The Following Testing Applications:

- Quality Assurance During Transgenic Seed Production.
- Large Scale Screening Of Plants To Assess Expression Of Gene.
- Checking Truckloads Or Containers Of Grain At Elevator, Barge, Or Processing Plant.

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 Cry1Ab Negative Control. - 1 x Vial of 0.5 ppb Cry1Ab Calibrator. - 1 x Vial of 2.5 ppb Cry1Ab Calibrator. - 1 x Vial of 5 ppb Cry1Ab Calibrator. - 1 x Bottle of Cry1Ab-Enzyme Conjugate. - 1 x Bottle of 5x Cry1Ab Extraction/Dilution Buffer - 1 x Packet Of Wash Buffer Salts. - 1 x Bottle Of Substrate. - 1 x Bottle Of Stop Solution. - 1 x Bottle 20x Grain Extraction. - 1 x Concentrate (for use with attached Application Guide). 	<ul style="list-style-type: none"> - Disposable Tissue Extractors, EnviroLogix Cat. # ACC 002. - Test Tubes for dilution of sample extracts. - Disposable Tip, Adjustable Air-Displacement Pipettes which will measure 20, 100, 500 and 1000. - Microliters (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 Cry1Ab Extraction/Dilution. - Buffer. - Glass Bottles or flasks with 175 mL capacity for storage of 1x Cry1Ab. - 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:

Plate Format:	- 96 Well.
Time Requirement:	- 2 h 30 min.
Detection Limit:	- 0.14 ppb.
Cross Reaction:	- Cry1Ab (0.14 ppb).
(Limit of Detection)	- Cry1Ac (1.2 ppb).
	- Cry1C (31.5 ppb).
	- Cry1F (7 ppb).

Measurement:
Product ID #:

- CryIIA (>10000 ppb).
- Microtiter Plate Reader or Strip Reader.
- AP003.