U.S. DEPARTMENT OF AGRICULTURE
Grain Inspection, Packers and Stockyards Administration
Federal Grain Inspection Service

CERTIFICATE NO.: FGIS 2016-090

CERTIFICATE OF CONFORMANCE

Quantitative test kit for aflatoxins in corn.

For:	EnviroLogix Inc.	Submitted by:	EnviroLogix Inc. 500 Riverside Industrial Pkwy Portland, ME 04103 Telephone: (207) 797-0300 Contact: Dr. Anna Rice
Method:	Lateral Flow Strip		

Standard Features and Options

Model:	QuickTox Kit for QuickScan Aflatoxin FREE, Product AQ 209 BG
Sample Preparation:	Grind sample so that ≥ 95% passes through a 20 mesh sieve
Extraction Method:	Shake 50-gram sample with two packets of EB17 extraction powder and 150 mL of water for 1 minute
Temperature Range:	18 – 30 °C (64 – 86 °F)
Aflatoxin Level:	5 – 100 ppb
Detection Technique:	EnviroLogix QuickScan System

Test kits must be operated according to the instructions in the GIPSA Aflatoxin Handbook.

This test kit underwent an initial verification of performance under the authority of Section 7B (c) of the United States Grain Standards Act, as amended, and was found to meet all test performance criteria as defined in "Design Criteria and Test Performance Specifications for Quantitative Aflatoxin Test Kits," September 2010 version. Evaluation tests that passed are summarized in Attachment I.

For further information, contact:

USDA, Grain Inspection, Packers and Stockyards Administration
Technology and Science Division
Analytical Chemistry Branch
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Mary Coffey Alonzo, Director
Technology and Science Division

Date: 8/17/2016

Certificate Expires one Year from the Date Signed

Note: The mention of firm name or trade products does not imply that they are endorsed or recommended by the United States Department of Agriculture over other firms or similar products not mentioned.

Type Evaluation
Certificate No.: FGIS 2016-090

ATTACHMENT I

Manufacturer: EnviroLogix Inc.
500 Riverside Industrial Pkwy
Portland, ME 04103
Telephone: (207) 797-0300
Contact: Dr. Anna Rice

TEST 1: TIME REQUIRED FOR COMPLETION OF AN ANALYSIS.

The data submitted by the manufacturer indicated that the analysis time required for one sample was less than the maximum limit of 30 minutes.

TEST 2: COMPARATIVE ACCURACY OF TEST KITS ON CORN SAMPLES NATURALLY CONTAMINATED WITH AFLATOXINS.

The data submitted by the test kit manufacturer for four corn samples, naturally contaminated at approximately 5, 10, 20, and 100 ppb total aflatoxins, met the performance criteria.

TEST 3: SUGGESTED ADDITIONAL COMMODITIES.

The manufacturer did not submitted data supporting the performance of this kit for any additional commodity.

TEST 4: AVOIDANCE OF TOXIC OR HAZARDOUS SUBSTANCES.

The Material Safety Data Sheets provided by the manufacturer confirmed this test kit meets safety requirements.

TEST 5: SENSITIVITY TO ELECTROMAGNETIC FIELDS (EMF).

A statement of certification has been provided that indicated the EnviroLogix QuickScan System met the EMF sensitivity requirements.

TEST 6: TEMPERATURE SENSITIVITY.

The data submitted by the test kit manufacturer supported performance of the kit at 18 °C, 24 °C, and 30 °C.

TEST 7: STABILITY.

The data submitted by the test kit manufacturer supported storage and stability claims.

TEST 8: GIPSA PERFORMANCE VERIFICATION.

The data generated by GIPSA staff showed the test kit is capable of quantifying aflatoxins in corn in the range of 5 – 20 ppb total aflatoxins. The evaluation was conducted using the EnviroLogix QuickScan System.