

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

CERTIFICATE NO.: FGIS 2012-009

CERTIFICATE OF CONFORMANCE

Quantitative test kit for aflatoxins in corn.

<u>For:</u> EnviroLogix Inc. <u>Method:</u> Lateral flow strip	<u>Submitted by:</u> EnviroLogix Inc. 500 Riverside Industrial Pkwy. Portland, ME 04103 Telephone: (207) 797-0300 Contact: Dr. Alan Davis
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Standard Features and Options

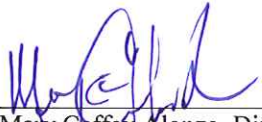
<u>Model:</u>	QuickTox™ Kit for QuickScan™ (quantitative), Product # AQ 109 BG.
<u>Sample Preparation:</u>	Ground sample so that 95% passes through a 20 mesh sieve.
<u>Extraction Method:</u>	50-gram sample with 50% ethanol/water extraction solution.
<u>Temperature Range:</u>	18-30 °C (64-86 °F).
<u>Aflatoxin Level:</u>	5-100 ppb.
<u>Detection Technique:</u>	Reader: 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," June 2004 version. Evaluation tests that passed are summarized in Attachment I.

For further information, contact:

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

Date: 12/29/2011

Certificate Expires Eighteen (18) Months 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 2012-009

ATTACHMENT I

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

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 with aflatoxins, containing approximately 5, 10, 20, and 100 ppb total aflatoxins, met the performance criteria.

TEST 3: SUGGESTED ADDITIONAL COMMODITIES.

The manufacturer did not submit data for the any additional commodities.

TEST 4: AVOIDANCE OF TOXIC OR HAZARDOUS SUBSTANCES.

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

TEST 5: SENSITIVITY TO ELECTROMAGNETIC FIELDS (EMF).

The EnviroLogix QuickScan™ system was previously approved by GIPSA for use in the official inspection system having met all EMF 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 5–100 ppb total aflatoxins. The evaluation was conducted using the EnviroLogix QuickScan™ system.