U.S. DEPARTMENT OF AGRICULTURE
Federal Grain Inspection Service

CERTIFICATE NO.: FGIS 2026-228

CERTIFICATE OF CONFORMANCE

Quantitative test kit for zearalenone in corn (including dent or field corn, corn meal, cracked corn, corn grits or polenta, and corn screenings).

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

Standard Features and Options

Model:	TotalTox Zearalenone, Product # AQ 412 BG
Sample Preparation:	Grind sample so that ≥ 95% passes through a 20 mesh sieve
Extraction Method:	Shake 50-gram sample with two EB17 pouches and 150 mL deionized or distilled water using mechanical shaker at 300 rpm for one minute.
Temperature Range:	18–30 ºC (64–86 ºF)
Zearalenone Level:	100–1000 ppb
Detection Technique:	EnviroLogix QuickScan Connect and EnviroLogix QuickScan II Reader

Test kits must be operated according to the FGIS-issued instructions.

This test kit underwent an initial verification of performance under the authority of Section 79b (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 Zearalenone Test Kits," January 2023 version. Evaluation tests that passed are summarized in Attachment I.

For further information, contact:

USDA, Federal Grain Inspection Service
Technology and Science Division
Analytical Chemistry Branch
10383 N. Ambassador Drive
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THOMAS WEBER Digitally signed by THOMAS WEBER Date: 2026.10.08 10:53:35 -05'00'

Date: 10/8/2026

Thomas A. Weber, Chief, Analytical Chemistry Branch
Technology and Science Division

Certificate Expires Three Years 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 2026-228

ATTACHMENT I

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

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 ZEARALENONE.

The data submitted by the test kit manufacturer for four corn samples, naturally contaminated at approximately 100, 250, 500, and 1000 ppb total zearalenone, met the performance criteria.

TEST 3: ADDITIONAL COMMODITIES.

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

TEST 4: AVOIDANCE OF TOXIC OR HAZARDOUS SUBSTANCES.

The Safety Data Sheets (SDS) 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 Connect and EnviroLogix QuickScan II Reader met the EMF sensitivity requirements.

TEST 6: TEMPERATURE SENSITIVITY.

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

TEST 7: STABILITY.

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

TEST 8: FGIS PERFORMANCE VERIFICATION.

The data generated by FGIS staff showed the test kit is capable of quantifying zearalenone in corn in the range of 100–1000 ppb. The evaluation was conducted using the EnviroLogix QuickScan Connect and EnviroLogix QuickScan II Reader.