U.S. DEPARTMENT OF AGRICULTURE Federal Grain Inspection Service

CERTIFICATE NO.: FGIS 2021-141

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 only) and additional commodities listed under TEST 3.

For: EnviroLogix Inc. EnviroLogix Inc. EnviroLogix Inc.

Method: Lateral Flow Strip 500 Riverside Industrial Pkwy

Portland, ME 04103 Telephone: (207) 274-6534 Contact: Mr. Brendan Gow

Date: __11/05/2020_

Standard Features and Options

Model: Total Tox Zearalenone, Product # AQ 412 BG

Sample Preparation: Ground sample so that at least 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 °C (64 - 86 °F) Zearalenone Level: 100 - 1000 ppb

Detection Technique: EnviroLogix QuickScan System

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 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 Zearalenone Test Kits," June 2018 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

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Thomas 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 2021-141

ATTACHMENT I Manufacturer: EnviroLogix Inc.

500 Riverside Industrial Pkwy

Portland, ME 04103 Telephone: (207) 274-6534

Contact: Mr. Brendan Gow

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 three corn samples, naturally contaminated with approximately 100, 250, and 1000 ppb zearalenone, met the performance criteria.

TEST 3: ADDITIONAL COMMODITIES.

The manufacturer submitted data supporting the performance of this kit for the following additional commodities: wheat (including wheat screenings only)

TEST 4: AVOIDANCE OF TOXIC OR HAZARDOUS SUBSTANCES.

The 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: 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 EnviroLogix QuickScan System.