CERTIFICATION

AOAC Research Institute
Performance Tested Methods℠

Certificate No.

121701

The AOAC Research Institute hereby certifies the method known as

TotalTox™ DON

manufactured by

EnviroLogix Inc.
500 Riverside Industrial Parkway
Portland, ME 04103 USA

This method has been evaluated and certified according to the policies and procedures of the AOAC *Performance Tested Methods*℠ Program. This certificate indicates an AOAC Research Institute Certification Mark License Agreement has been executed which authorizes the manufacturer to display the AOAC Research Institute *Performance Tested Methods*℠ certification mark on the above-mentioned method for the period below. Renewal may be granted by the Expiration Date under the rules stated in the licensing agreement.



Bradley A. Stawick, AOAC Research Institute Senior Director

Issue Date January 08,2026

Expiration Date December 31, 2026

METHOD NAME
TotalTox™ DON
Formerly QuickTox™ Kit for QuickScan DON Flex

CATALOG NUMBER
AQ 304 BG

ORIGINAL CERTIFICATION DATE
December 19, 2017

PRINCIPLE OF THE METHOD

The TotalTox™ DON test method, formerly QuickTox™ Kit for QuickScan DON Flex, utilizes competitive, lateral flow immunoassay technology to determine deoxynivalenol (DON) contamination in various matrixes. DON is extracted from ground wheat or corn samples with water and clarified through filtration or centrifugation. The test sample is created by 1:1 dilution with DB6 assay diluent and equilibration to 22°C in the incubator unit and then tested with the assay strip. Development of the assay strip occurs as the test sample moves vertically through the strip by capillary action revealing test and control lines that are identified and quantified with the reader and associated system software. The reader system uses matrix-specific calibration curves, input by scanning the multi-matrix barcode card, in order to determine the DON concentration in the sample.

CERTIFIED CLAIM STATEMENT: The TotalTox™ DON test is certified for the determination of deoxynivalenol (DON) within the scope of Tables 1 and 2 and with the modifications indicated in Table 3.

Certified method includes:

1. QuickScan Reader 500+
2. QuickScan Reader 550+
3. QuickScan System II (QSSII)

Table 1. Method Performance Claims

				Performance supporting certification			
Matrix	Test Portion	Extraction Solvent	Range, µg/g	LOD, µg/g	LOQ, µg/g	Recovery, %	RSD_r, %
Wheat	20 g	Water	0.50-30	<0.01	<0.01	81-114	2.52-20.5
Corn	20 g	Water	0.50-30.4	ND[a]	ND[a]	84.0-109	1.64-15.8

[a] ND = Not determined

Table 2. Method Selectivity

		No. Compounds Interfering in wheat	
Compounds	Concentration	0 mg/kg DON	2.3 mg/kg DON
3 DON variants[a]	3 µg/g	1[b]	ND[c]
5 Non-target mycotoxins[d]	100 µg/g	0	0

[a] Comprising 3-acetyl DON, 15-acetyl DON and nivalenol
[b] Positive interference with 3-acetyl DON (188%)

[c] ND = Not determined
[d] Comprising ochratoxin A, fumonisin B_1, aflatoxin B_1, T-2 toxin, and zeralenone

Table 3. Method History

No.	Date	Summary	Supporting Data
1	December 2017	Original Certification	Certification Report
2	August 2018	Level 2 Modification: Certification of QuickScan System II	Modification 1 Report
3	December 2019	Level 2 Modification: Evaluation of new component supplier	Modification 2 Report
4	March 2021	Level 1 Modification: Rebranding to TotalTox™ DON	NA[a]

[a] NA = Not applicable