



CERTIFICATION

AOAC Research Institute *Performance Tested Methods*SM

Certificate No.
071901

The AOAC Research Institute hereby certifies the method known as:

Reveal[®]Q+ for DON

manufactured by

Neogen Corporation

620 Leshar Place

Lansing, Michigan 48912 USA

This method has been evaluated and certified according to the policies and procedures of the AOAC *Performance Tested Methods*SM 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*SM 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.

A handwritten signature in black ink, appearing to read "Bradley A. Stawick".

Bradley A. Stawick, AOAC Research Institute Senior Director

Issue Date

January 20, 2026

Expiration Date

December 31, 2026

METHOD NAME

Reveal® Q+ for DON

CATALOG NUMBER

700002539 (8385)

ORIGINAL CERTIFICATION DATE

July 2, 2019

PRINCIPLE OF THE METHOD

Reveal® Q+ for DON (deoxynivalenol) is a single-step, lateral-flow immunochromatographic assay for quantitative determination of DON in grain and grain products, including wheat, corn, barley, soybeans, buckwheat, rice, sorghum, and distillers dried grain. The test utilizes a competitive assay format. Sample extract is wicked through a reagent zone containing DON-specific antibodies conjugated to colloidal gold particles. The DON-antibody complex is then wicked onto a membrane containing a zone of DON conjugated to a carrier protein. Any uncomplexed antibody is captured in this zone, allowing the particles to concentrate and form a visible line. As the level of DON increases, less antibody-gold is captured in the test zone as more antibody-gold is bound to DON. Therefore, as the concentration of DON in the test sample increases, the test line density decreases. Algorithms programmed into the AccuScan® reader convert line density into a quantitative result displayed in ppm. The test also contains a control zone and reagents utilizing a second immune complex. The control line will form regardless of the presence of DON in the test sample, ensuring that the test strip is functioning properly.

CERTIFIED CLAIM STATEMENT: The Reveal® Q+ for DON is certified for the determination of DON within the scope of Tables 1 and 2.

Certified method includes:

1. AccuScan Gold reader

Table 1. Method Performance Claims

Matrix	Test Portion	Extraction Solvent	Range, mg/kg	Performance supporting certification			
				LOD, mg/kg	LOQ, mg/kg	Recovery, %	RSD _r , %
Corn	50 g	Water	0.50-35	0.014	0.042	88.0-103	3.8-19
Wheat	50 g	Water	0.50-29	0.037	0.11	94-115	4.5-12
Corn/Soy Blend	50 g	Water	0.50-30	ND ^a	ND	84-110	3.1-26 ^b
Soybeans	50 g	Water	0.50-30	ND	ND	80-103	0-4.4 ^b
Barley	50 g	Water	0.50-30	ND	ND	80-100	0-3.9 ^b
Malted Barley	50 g	Water	0.50-30	ND	ND	99-122	3.4-6.9 ^b
Buckwheat	50 g	Water	0.50-30	ND	ND	80-99	0-6.3 ^b
Brown Rice	50 g	Water	0.50-30	ND	ND	60-102	0-2.7 ^b
Sorghum	50 g	Water	0.50-30	ND	ND	96-102	1.6-8.3 ^b
Distillers Dried Grain	50 g	Water	0.50-30	ND	ND	86-120	0-3.8 ^b

^a ND = Not determined.

^b Based on assay replicates, not test portion replicates.

Table 2. Method Selectivity

Compounds	Concentration	No. Compounds Interfering	
		Non-detect corn	2 mg/kg DON in corn
4 non-target mycotoxins ^a	100 mg/kg	0	0
4 DON-related compounds ^b	NP ^c	3 ^d	NP

^a Comprising ochratoxin A, fumonisin B₁, zearalenone and aflatoxin B₁.

^b Comprising 3-acetyl-DON, 15-acetyl-DON, DON-3-glucoside and nivalenol.

^c Not provided.

^d Comprising 3-acetyl-DON (105%), 15-acetyl-DON (7%), and DON-3-glucoside (26%).

Table 3. Method History

No.	Date	Summary	Supporting Data
1	July 2019	Original Certification	Certification Report