

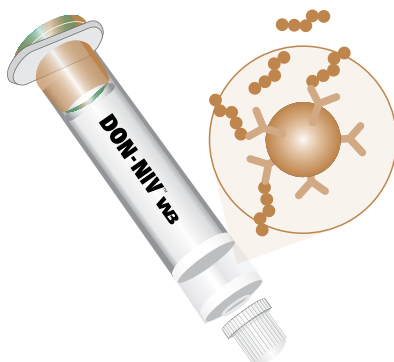


## Precise Numerical Results

Deoxynivalenol (DON) and nivalenol (NIV) are trichothecene mycotoxins produced by fusarium molds. Animal feeds which are contaminated with fusarium toxins cause feed refusal, weight loss, vomiting and diarrhea – resulting in significant health, production, and economic risks. NIV has also been linked to lung and brain hemorrhage and bone marrow injury through disruption of DNA and protein synthesis. The EU has instituted regulatory limits for DON in food and feeds as low as 0.2 ppm for infant foods, 0.5 ppm for breads, pastries, biscuits and cereals, and 1.75 ppm for wheat, oats, and maize. US FDA advises no more than 1 ppm DON in wheat products intended for human consumption and specific levels for feeding of livestock animals.

Monoclonal antibodies enable the DON-NIV™ WB immunoaffinity column to isolate DON and NIV simultaneously in a single sample extract. Its 3 mL, wide-bore construction delivers flow-through speed to this powerful sample preparation column. Coupled with LC for detection, DON-NIV WB doubles the productivity of traditional laboratory analysis for DON and NIV.

VICAM offers a complete line of single and multiple mycotoxin detection solutions designed to improve field and laboratory productivity, reduce costs, and ensure the safety and security of our global food supply.



### BENEFITS

**High Recovery** – Over 90% for deoxynivalenol and nivalenol\*

**Exclusive** – Primarily for HPLC or UPLC® use

**Convenient** – Total readings for deoxynivalenol and nivalenol

**Durable** – Long shelf life

**Versatility** – For use with wheat and other commodities

**Quick** – 15 minutes to isolate toxins\*\*

**Simple** – Easy-to-use procedure

### CULTIVATING SUCCESS THROUGH SCIENCE™:

#### Extract Sample

- Grind and weigh sample
- Add water and vortex
- Filter

#### Dilute and Filter

- Dilute extract
- Filter

#### Absorb and Elute

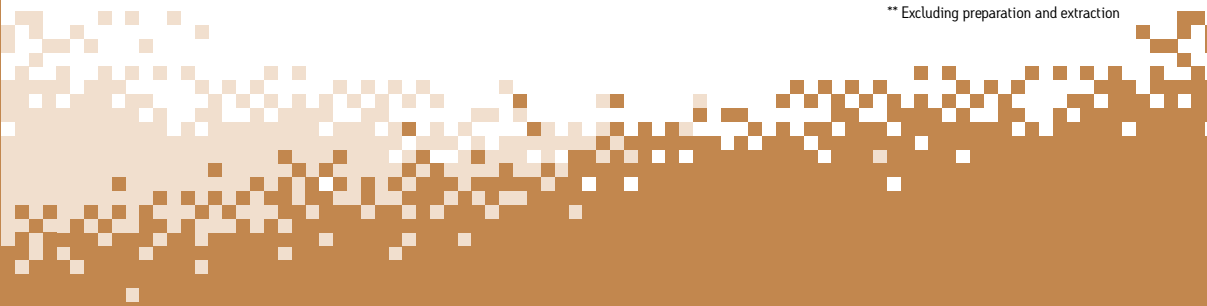
- Pass filtrate over DON-NIV WB affinity column
- Wash column
- Elute with methanol/acetonitrile and collect in curvette

#### Measure

- Dry/redissolve and inject eluate into LC
- Determine deoxynivalenol and nivalenol concentration

\* Using the procedure developed by VICAM

\*\* Excluding preparation and extraction





## ORDERING INFORMATION

Cat. No.	Description
176002933	DON-NIV WB Columns (25/box)
715003600	DON-NIV WB Instruction Manual
600001106	Strip Test Filter (25/pk)
34000	Disposable Curvettes (250/box)
31240	Fluted Filters
23040	Vortex Mixer
20250	Graduated Cylinder, 250 mL
21020	Single Position Pump Stand <sup>†</sup>
35016	Methanol, HPLC Grade (4 x 4 L)
G1130	Acetonitrile (4 x 4 L)

<sup>†</sup>Multiple position pump stands available

Subject to change without notice.

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The analytical methods presented in this data sheet have been researched and developed by VICAM to be used exclusively with DON-NIV WB products. These methods have been validated in the VICAM laboratories to perform to the specifications indicated in the DON-NIV WB procedures. The user assumes all risk in using DON-NIV WB procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that DON-NIV WB products conform to Waters' printed specification and quality control standards. Waters will, at its option, repair or replace any product, or part thereof, which proves to be defective in workmanship or material. VICAM's undertaking to repair or service such products is exclusive and is in lieu of all other warranties whether written, oral, expressed, or implied, including any implied warranty of merchantability or fitness for a particular purpose. VICAM shall have no liability for anticipated or lost profits or any loss, inconvenience or damage whether direct, indirect, incidental, consequential or otherwise, to person or property, or for strict liability or negligence arising from or in connection with the use of these assay procedures or DON-NIV WB products.

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