

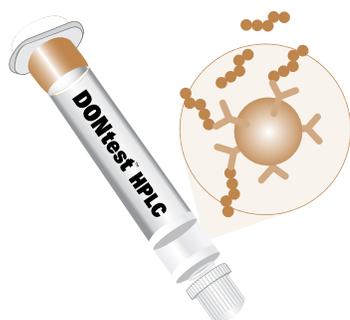


Precise Numerical Results

Deoxynivalenol (DON) is also known as vomitoxin because of its impact on livestock through interference with animal growth and acceptance of feed. DON is often present with other mycotoxins and has been isolated from grains and feeds throughout the world at levels as high as 92 ppm. DON has been implicated in moldy corn toxicosis of swine and may play a role in the human disease alimentary toxic aleukia. Because of concerns about DON, the United States FDA has issued advisory levels of 1 ppm for wheat products for human consumption, 5 ppm for grain products for most animal feeds and 10 ppm for grain products for cattle feed. The European Union has limits for DON that range from less than 0.2 ppm in processed cereal-based foods for infants and young children to less than 1.75 ppm for unprocessed wheat.

Using monoclonal antibody-based affinity chromatography, DONtest™ HPLC is an HPLC test for the detection of DON using immunoaffinity columns. Performed in less than 10 minutes, DONtest HPLC can measure levels of DON as low as 0.10 ppm and as high as 5 ppm.

An ideal cleanup step for any HPLC, DONtest HPLC has a long shelf life and provides precise numerical results in parts per million levels. The preferred test of laboratories around the world, no other test comes close for speed, quantification, and specificity.



BENEFITS

Exclusive – Specifically for HPLC use

Quick – 10 minutes to isolate toxin*

Durable – Long shelf life

Versatile – Can be used with a variety of samples

Wide Range – Detects levels as low as 0.10 ppm and as high as 5 ppm

Safe – Requires less toxic materials than other methods

CULTIVATING SUCCESS THROUGH SCIENCE™:

EXTRACT SAMPLE

- Grind and weigh sample
- Add PEG and water to sample
- Filter

ABSORB AND ELUTE

- Filter

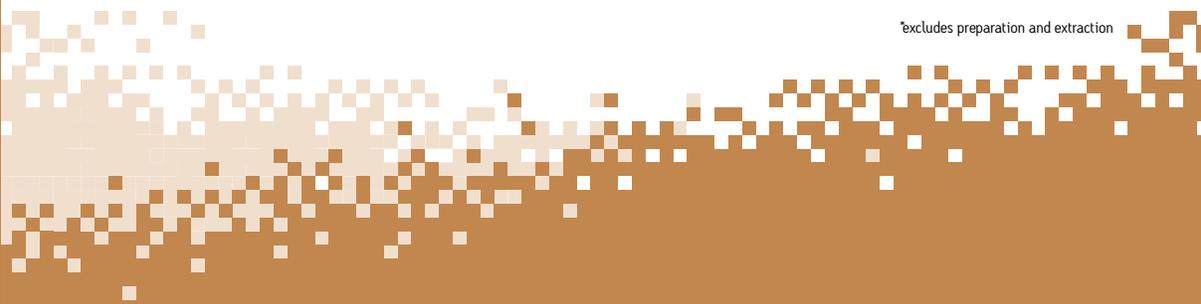
ABSORB AND ELUTE

- Pass filtrate over DONtest HPLC affinity column
- Wash column
- Elute DON and collect in cuvette

MEASURE

- Dry down eluate
- Resuspend in mobile phase
- Inject into HPLC
- Determine DON concentration

*excludes preparation and extraction





ORDERING INFORMATION

Cat. No.	Description
G1005	DONtest HPLC Columns (25 per box)
G1006	DONtest HPLC Columns (50 per box)
G1015	Polyethylene Glycol (PEG), 250 g
G1046	DONtest HPLC kit (100 Columns and 1 Set Standards)
G1130	Acetonitrile (4x4 L)
20250	Graduated Cylinder, 250 mL
20501	500 mL Bottle Dispenser for Methanol (0-3 mL range)
21020	Single Position Pump Stand [†]
23040	Vortex Mixer
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
35016	Methanol, HPLC Grade (4x4 L)

[†]Multiple position pump stands available

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The analytical methods presented in this data sheet have been researched and developed by VICAM to be used exclusively with DONtest products. These methods have been validated in the VICAM laboratories to perform to the specifications indicated in the DONtest procedures. The user assumes all risk in using DONtest procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that DONtest 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 DONtest products.

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