



Precise Numerical Results

Fumonisin is a mycotoxin produced by the fungus *Fusarium moniliforme*. *F. moniliforme* is a frequent, almost universal, inhabitant of corn. Fumonisin is thought to cause equine leukoencephalomalacia in horses, pulmonary edema in swine, and human esophageal cancer. The FDA/USDA Working Group on Fumonisin advises levels of less than 4 ppm for products for human consumption, less than 5 ppm in horse feed, less than 20 ppm for swine feed, and less than 30 ppm for cattle. The European Union has provided the following recommendations:

- Maize-based breakfast cereal and snacks 0.8 ppm
- Maize grits/flour/meal and refined maize semolina 1 ppm
- Other maize-based foods for direct human consumption 1 ppm
- Processed maize-based foods for infants and young children and baby food 0.2 ppm
- Unprocessed maize not intended for wet milling 4 ppm

Using monoclonal antibody-based affinity chromatography, FumoniTest™ WB is a new HPLC test for the detection of fumonisins using wide bore immunoaffinity columns. With a total volume of 3 mL, compared to the total of 1 mL in VICAM's standard columns, FumoniTest WB allows for a faster flow rate preferred by many laboratories and is the ideal cleanup step for any HPLC.

FumoniTest WB is one of many wide bore columns available from VICAM. Through the development of this fast-flow WB product line, VICAM demonstrates a commitment to improving mycotoxin testing and responding to our customers' needs.

Cultivating Success Through Science™:

Extract Sample

- Grind and weigh sample
- Blend with extraction solvent
- Centrifuge
- Filter

Dilute and Filter

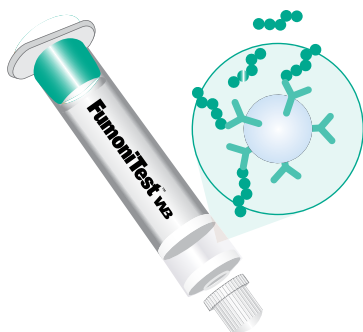
- Dilute extract
- Filter

Absorb and Elute

- Pass filtrate over FumoniTest WB affinity column
- Wash column
- Elute fumonisins and collect in a cuvette
- Dry eluate and reconstitute

Measure

- Add developers; inject eluate into HPLC
- Determine fumonisin concentration



BENEFITS

Exclusive – Specifically for HPLC use

Comprehensive – Total readings for fumonisins B₁, B₂, and B₃

Durable – Long shelf life

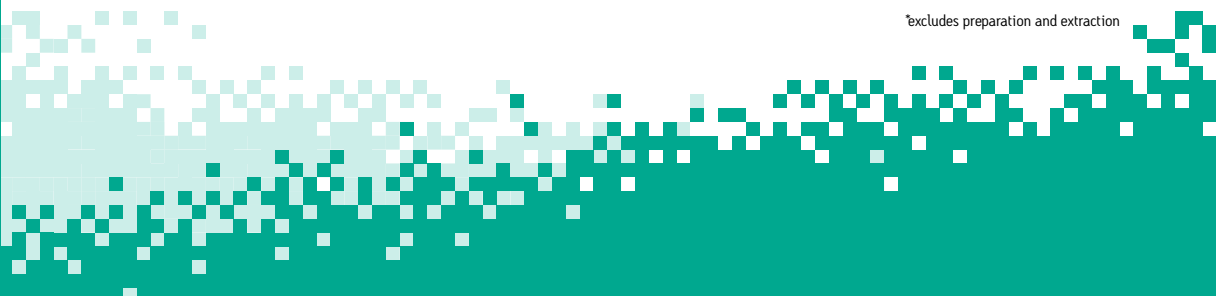
Versatile – For use with a variety of samples

Quick – 15 minutes to isolate toxin*

Wide Range – Detects levels as high as 10 ppm

Fast Flow – Passes more volume over the column

*excludes preparation and extraction





ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
G1060	FumoniTest WB Columns (25 per Box)	21020	Single Position Pump Stand*
G1059	FumoniTest WB Columns (50 per Box)	23040	Vortex Mixer
31955	Microfiber Filters, 1.5 µm, 11 cm (100)	20501	500 mL Bottle Dispenser for Methanol (0–3 mL range)
G5003	FumoniTest WB Developer A HPLC (5 mL)	G1118	WB Column Coupling (6)
G5004	FumoniTest WB Developer B HPLC (500 µL)	G1130	Acetonitrile HPLC Grade (4 X 4 L)
G1113	10X Concentrate of PBS (150 mL)	100000187	FumoniTest WB HPLC Kit (100 Columns + 1 Set Standards)
35016	Methanol, HPLC Grade (4 X 4 L)		
20050	Graduated Cylinder, 50 mL		
20250	Graduated Cylinder, 250 mL		

Also required, must be sourced locally:

Distilled, Reverse Osmosis, or Deionized Water Centrifuge

*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 FumoniTest WB products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the FumoniTest WB procedures. The user assumes all risk in using FumoniTest WB analytical procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that FumoniTest WB products conform to VICAM's printed specification and quality control standards. VICAM 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 FumoniTest WB products..

Orders:

1848 N Deffer Drive
Nixa, MO 65714 USA

Tel: +1.877.228.4244
+1.417.725.6588

Fax: +1.417.725.6102

orders@vicam.com

Headquarters:

34 Maple Street
Milford, MA 01757 USA

Tel: +1.800.338.4381
+1.508.482.4935

Fax: +1.508.482.4972

www.vicam.com