



FumoniTest™ WB Affinity Column



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 less than 5 mg/kg in horse feed, less than 10 mg/kg for swine feed, and less than 50 mg/kg for cattle feed, while the European Union has a proposal scheduled for final consideration in 2007.

Using monoclonal antibody-based affinity chromatography, FumoniTest™WB is a new HPLC-only test for the detection of fumonisin 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.

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

Here's How Simple FumoniTest WB is to Use:

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

*excluding preparation and extraction



Ordering Information

Cat. No.	Description
G1060	<i>FumoniTest WB</i> Columns (25 per Box)
G1059	<i>FumoniTest WB</i> Columns (50 per Box)
31240	VICAM Fluted Filter Paper, 24 cm (100)
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
G5003	<i>FumoniTest WB</i> Developer A HPLC (5 mL)
G5004	<i>FumoniTest WB</i> Developer B HPLC (500 µL)
G1113	10X Concentrate of PBS (150 mL)
34000	Disposable Cuvettes (250 per Pack)
35016	Methanol, HPLC Grade (4 X 4 L)
36010	Disposable Plastic Beakers (25 per pack)
G1124	Noniodized Sodium Chloride (Salt, NaCl)
20050	Graduated Cylinder, 50 mL
20250	Graduated Cylinder, 250 mL
20100	Digital Scale with AC Adapter
20200	Commercial Blender with Stainless Steel Container
20700	Wash Bottle, 500 mL
21010	Cuvette Rack

Cat. No.	Description
21020	Single Position Pump Stand†
23040	Vortex Mixer
20501	500 mL Bottle Dispenser for Methanol (0–3 mL range)
G1118	WB Column Coupling (6)
36020	Filter Funnel, 65 mm (10 per Pack)
36022	Filter Funnel, 105 mm (4 per Pack)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)
G1130	Acetonitrile HPLC Grade (4 X 4 L)
G4033	Micro-pipettor, (1 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.

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