



FumoniTest™ Affinity Column

Precise Numerical Results

Fumonisin is a mycotoxin produced by the fungus *Fusarium moniliforme*. Frequent, almost universal inhabitants of corn, fumonisin B₁ and fumonisin B₂ are present in most corn samples tested, often at greater than 1 ppm. The FDA/USDA Working Group on Fumonisin advises less than 5 ppm in horse feed, less than 10 ppm for swine feed and less than 50 ppm for cattle feed. Fumonisin is thought to cause equine leukoencephalomalacia in horses, swine pulmonary edema, and human esophageal cancer.

Using monoclonal antibody-based affinity chromatography, *FumoniTest™* from VICAM is the trusted fumonisin test that produces precise numerical results.

FumoniTest is safe and simple. It can be performed in less than 15 minutes and requires no special skills. *FumoniTest* is also ideal as the cleanup step for any HPLC analysis for precise results in parts per million. With *FumoniTest* you have the best of all worlds: sensitivity, simplicity, and speed—quick tests for parts per million levels.

FumoniTest has a long shelf life. In fact, no other test comes close for speed, quantification, and economy.

Benefits:

Convenient – For use with fluorometer or HPLC

Comprehensive – Tests for fumonisins B₁, B₂, and B₃

Durable – Has a long shelf life

Versatile – For use with a variety of samples

Quick – Less than 15 minutes to isolate toxin*

Wide Range – Detects levels as low as 0.016 ppm and as high as 10 ppm

Here's How Simple *FumoniTest* is to Use:

Extract Sample

- Grind and weigh sample
- Add salt and methanol/water mixture
- Filter

Dilute and Filter

- Dilute extract
- Filter

Absorb and Elute

- Pass filtrate over *FumoniTest* affinity column
- Wash column with buffers
- Elute fumonisins and collect in cuvette

Measure

- Add developers and place cuvette into a calibrated fluorometer, or
- Inject eluate into HPLC
- Determine fumonisin concentration

* excludes preparation and extraction

Ordering Information

Cat. No. Description

G8008	<i>FumoniTest™</i> Basic Equipment Package 110V
G8009	<i>FumoniTest</i> Basic Equipment Package 220V
G1008	<i>FumoniTest</i> Columns (25 per box)
G1112	10x Concentrate of 0.1% Tween PBS (150 mL)
G1113	10x Concentrate of PBS (150 mL)
G1124	Noniodized Sodium Chloride (Salt, NaCl)
G2005	Microfiber Filters, 1.0 µm, 9 cm (100)
G4031	Micro-pipettor, 20 µL
G4033	Micro-pipettor, 1 mL
G5003	<i>FumoniTest</i> Developer A HPLC (5 mL)
G5004	<i>FumoniTest</i> Developer B HPLC/Fluorometer (500 µL)
G5005	<i>FumoniTest</i> Developer A Fluorometer (15 mL)
G8000	<i>Series 4-EX Fluorometer™</i>
20050	Graduated Cylinder, 50 mL
20100	Digital Scale with AC Adapter
20200	Commercial Blender with Stainless Steel Container

Cat. No. Description

20250	Graduated Cylinder, 250 mL
20501	500 mL Bottle Dispenser for Methanol (0-3 mL range)
20652	Disposable Plastic Pipets (50 per pack)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)
20658	Micro-pipette Tips for 20 µL Micro-pipettor (96)
20700	Wash Bottle, 500 mL
21010	Cuvette Rack
21020	Single Position Pump Stand †
23040	Vortex Mixer
31240	VICAM Fluted Filter Paper, 24 cm (100)
31967	Kim Wipes
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
33060	<i>FumoniTest</i> Calibration Standards
34000	Disposable Cuvettes (250 per pack)
35016	Methanol, HPLC Grade (4 x4 L)
36010	Disposable Plastic Beakers (25 per pack)
36020	Filter Funnel, 65 mm (10 per pack)
36022	Filter Funnel, 105 mm (4 per pack)

Also required; must be sourced locally:

Distilled, Reverse Osmosis, or Deionized Water
Sodium Bicarbonate (for testing beer only)
Speed Vacuum or Equivalent Evaporator

† 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™* products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the *FumoniTest* procedures.

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