



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. Fumonisin is thought to cause equine leukoencephalomalacia in horses, swine pulmonary edema, 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 feed. 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™ 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.

CULTIVATING SUCCESS THROUGH SCIENCE™:

EXTRACT SAMPLE

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

DILUTE AND FILTER

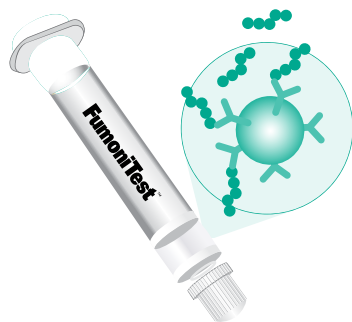
- Dilute extract
- Filter

ABSORB AND ELUTE

- Pass filtrate over FumoniTest affinity column
- Wash column
- Elute fumonisins and collect in a cuvette

MEASURE

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



BENEFITS

Convenient – For use with fluorometer or HPLC

Comprehensive – Tests for fumonisins B₁, B₂, and B₃

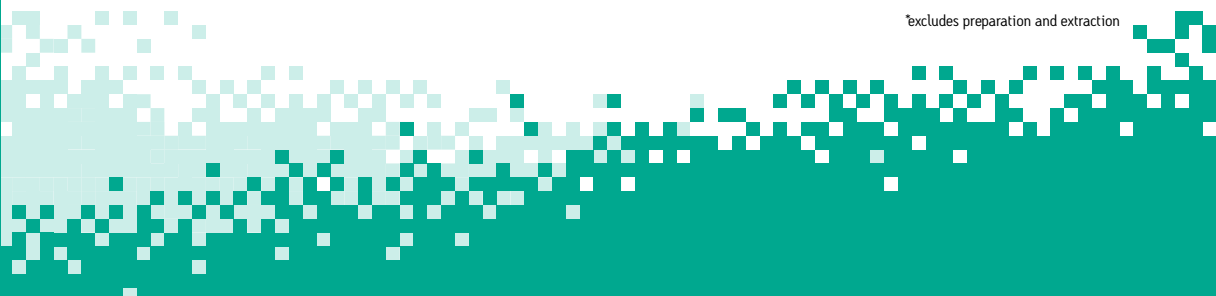
Durable – Has a long shelf life

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

*excludes preparation and extraction





ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
G8008	FumoniTest Basic Equipment Package 110V	20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)
G8009	FumoniTest Basic Equipment Package 220V	20658	Micro-pipette Tips for 20 µL Micro-pipettor (96)
G1008	FumoniTest Columns (25 per box)	20700	Wash Bottle, 500 mL
G1112	10x Concentrate of 0.1% Tween PBS (150 mL)	21010	Cuvette Rack
G1113	10x Concentrate of PBS (150 mL)	21020	Single Position Pump Stand†
G1124	Noniodized Sodium Chloride (Salt, NaCl)	23040	Vortex Mixer
G2005	Microfiber Filters, 1.0 µm, 9 cm (100)	31240	VICAM Fluted Filter Paper, 24 cm (100)
G4031	Micro-pipettor, 20 µL	31967	Kim Wipes
G4033	Micro-pipettor, 1 mL	33060	FumoniTest Calibration Standards
G5003	FumoniTest Developer A HPLC (5 mL)	34000	Disposable Cuvettes (250 per pack)
G5004	FumoniTest Developer B HPLC/ Fluorometer (500 µL)	35016	Methanol, HPLC Grade (4 x4 L)
G5005	FumoniTest Developer A Fluorometer (15 mL)	36010	Disposable Plastic Beakers (25 per pack)
FLSEREX	Series 4-EX Fluorometer™	36020	Filter Funnel, 65 mm (10 per pack)
20050	Graduated Cylinder, 50 mL	36022	Filter Funnel, 105 mm (4 per pack)
20100	Digital Scale with AC Adapter		
20200	Commercial Blender with Stainless Steel Container		
20250	Graduated Cylinder, 250 mL		
20501	500 mL Bottle Dispenser for Methanol, (0-3 mL range)		
20652	Disposable Plastic Pipets (50 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. The user assumes all risk in using FumoniTest analytical procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that FumoniTest 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 products.

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