



## Precise, Quantitative, and Fast Results

VICAM's Fumo-V™ strip tests answer one of today's toughest food safety challenges with a new user-friendly lateral flow fumonisin test that delivers accurate quantitative results in a matter of minutes. Fumonisin is a mycotoxin produced by several fusarium mold species. Frequent, almost universal inhabitants of corn, fumonisin B<sub>1</sub> and fumonisin B<sub>2</sub> 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 United States Food and Drug Administration/United States Department of Agriculture (US FDA/USDA) Working Group on fumonisin advises levels of < 4 ppm for products for human consumption, < 5 ppm in horse feed, < 20 ppm for swine feed, and < 30 ppm for cattle feed.

The European Union (EU) recommends 0.8 ppm for maize-based breakfast cereal and snacks, 1 ppm for maize grits/flour/meal and refined maize semolina, 1 ppm for other maize-based foods for direct human consumption, 0.2 ppm for processed maize-based foods for infants and young children and baby food, and 4 ppm for unprocessed maize not intended for wet milling

Fumo-V test strips use the proven sensitivity and selectivity of VICAM's monoclonal antibodies to accurately detect and measure total fumonisin B<sub>1</sub>, B<sub>2</sub>, and B<sub>3</sub> at levels as low as 0.2 ppm and as high as 5 ppm. The single dilution sample preparation procedure saves time and materials, and the test strip develops in just 5 minutes.\* Digital results are displayed on the Vertu Lateral Flow reader, eliminating the need for subjective visual interpretation.

### BENEFITS

**Fast screening** – Results in 5 minutes\*

**Simple** – No special training required

**Sensitive** – Limits of detection as low as 0.2 ppm

**Convenient** – Easily performed onsite or in the laboratory

**Durable** – Long shelf life

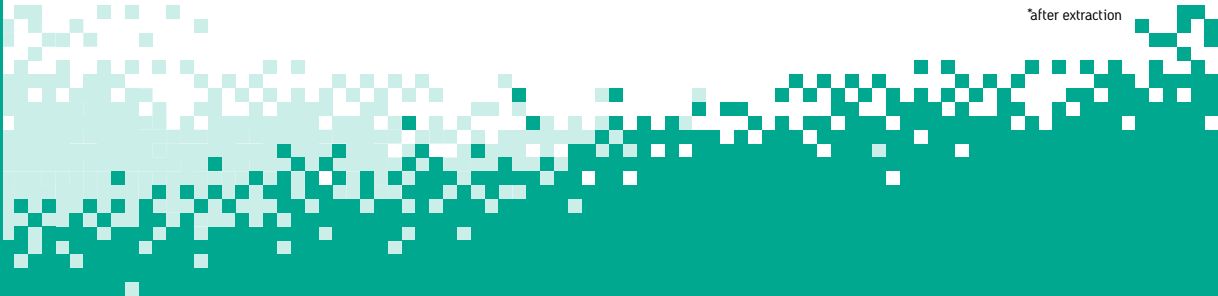
**Accurate** – Real-time data which can be printed or transferred to a spreadsheet

**Wide Range** – 0 to 5 ppm

### CULTIVATING SUCCESS THROUGH SCIENCE™:

- Weigh sample
- Extract with 70% methanol
- Filter
- Transfer diluent to the dilution tube
- Mix with sample extract
- Transfer to the Fumo-V strip test
- Develop for 5 minutes
- Insert the Fumo-V strip test into the Vertu™ reader
- Read results

\*after extraction





## ORDERING INFORMATION

Cat. No.	Description
176002810	Fumo-V Kit (25 Tests)*

### Vertu Basic Equipment Package\*\*

Cat. No.	Description
176002068	Vertu Mycotoxin BEQ, 110V
176002073	Vertu Mycotoxin BEQ, 220V
176002078	Vertu Mycotoxin BEQ w/Printer, 110V
176002079	Vertu Mycotoxin BEQ w/Printer, 220V

### Vertu Consumables and Supplies

Cat. No.	Description
600000937	Graduated Cylinder, 25 mL
36020	Filter Funnel, 65 mm (10/pk)
600001106	Strip Test Filter (25/pk)
600000827	Extraction Tubes, 40 mL (25/pk)
600001108	Micro-Pipettor, 100 µL
600001109	Micro-Pipette Tips, 100 µL (25/pk)
600001107	Strip Test Vial Rack, (1 ea)
600000813	Strip Test Vial (25/pk)

\* Included with Fumo-V Kit: Fumo-V Strips (25); Fumo-V Diluent; Strip Test Filters (25); Strip Test Vials (25); Micropipette Tips, 100 µL (50); Extraction Tubes, 40 mL (50); Fumo-V Barcode Set; and Fumo-V Instruction Guide.

\*\* Included with Vertu Mycotoxin BEQ: Vertu Reader w/Barcode Scanner, Filter Funnel, 65 mm (10); Graduated Cylinder, 25mL; Micropipettor, 100 µL; Strip Test Vial Rack (1); Digital Timer; Micropipette Tips, 100 µL (25); Strip Test Filter (25); Extraction Tubes, 40 mL (25); Vortex Mixer, 100 V or 220 V; and Vertu Instruction Manual. Optional: Printer offered with Order #176002078 and Order #76002079.

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 Fumo-V products. These methods have been validated in the VICAM laboratories to perform to the specifications indicated in the Fumo-V procedures. The user assumes all risk in using Fumo-V procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that Fumo-V 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 Fumo-V products.

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