



- **Quick** – Less than 15 minutes to test (excluding sample preparation and extraction)
- **Sensitive** – Detects levels as low as 0.25 ppm for Fluorometer and 0.016 ppm for HPLC
- **Wide Range** – Can measure levels as high as 10 ppm
- **Convenient** – Use same extract for testing for other mycotoxins

Precise Numerical Results

Fumonisin is a mycotoxin produced by the fungus *Fusarium moniliforme*. A frequent, almost universal inhabitant of corn is *F. moniliforme*. 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 affinity chromatography, *FumoniTest™* from VICAM is the only 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. And, you have the best of all worlds: sensitivity, simplicity, and speed – quick tests for parts per million levels. *FumoniTest* is also ideal as the cleanup step for any HPLC analysis for precise results in parts per billion.

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

Here's how simple *FumoniTest* is to use:

Extract Sample

- Grind and weigh sample
- Blend sample with salt and methanol / water mixture
- Filter

Dilute and Filter

- Dilute a portion of filtered extract
- Filter

Absorb and Elute

- Pass a portion of filtrate over *FumoniTest* affinity column
- Wash column with buffers
- Elute Fumonisin from the column with methanol and collect in a cuvette

Measure

- Add developers and place cuvette into a calibrated fluorometer and read results in ppm, or
- Inject Eluate into HPLC
- Determine fumonisin concentration by HPLC

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FumoniTest:

- Digital readout in ppm or can be used as a cleanup for HPLC
- 15 minutes total test time
- Tests for total of fumonisins B₁ and B₂
- Has shelf life of one year
- Can be used with a variety of samples

Ordering Information

Cat. No.	Description
G8008/ G8009	<i>FumoniTest</i> Series-4 Fluorometer Basic Equipment Package G8008, 110 V for U.S.A. / G8009, 220 V for international Includes Series-4 Fluorometer; Series 4 printer paper; mycotoxin instructional video, waste collection beaker; filter funnels (65 mm), glass syringe (10 mL), disposable cuvettes, <i>FumoniTest</i> calibration standards, Kim Wipe tissues, microfiber filters (1 µm), VICAM fluted filter paper (24 cm), single position pump stand (10 mL), cuvette rack, wash bottle (500 mL), bottle dispenser for methanol (500 mL), 2 glass blender jars (500 mL), graduated cylinder (250 mL), commercial blender with stainless steel container, digital scale and adapter, graduated cylinder (50 mL), disposable plastic beakers, micro-pipet tips (50 µL), micro-pipettor (20 µL), micro-pipettor (1 mL), micro-pipet tips (1 mL) and <i>FumoniTest</i> instruction manual.

Each item available individually.

Cat. No.	Description
G1008	<i>FumoniTest</i> columns, Fluorometer & HPLC, (25)
33060	<i>FumoniTest</i> calibration standards
34000	Cuvettes, (250)
35016	Methanol, HPLC grade, 4 x 4 L bottles
G5005	<i>FumoniTest</i> developer A Fluorometer, 15 mL (15 tests)
G5003	<i>FumoniTest</i> developer A-HPLC, 5 mL (22 tests)
G5004	<i>FumoniTest</i> developer B-HPLC/Fluorometer, 500 mL (for ± 200 tests)
G8034	<i>FumoniTest</i> upgrade pack - micro-pipet tips (50 µL), micro-pipettor (20 µL), micro-pipettor (1 mL), micro-pipet tips (1 mL), <i>FumoniTest</i> calibration standards, microfiber filters (1 µm)

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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, express or implied, other than that 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.