



## Fast, Precise, and Solvent-Free Fumonisin Test Results

VICAM's Fumo-V™ AQUA™ answers one of today's toughest food safety challenges with a new user-friendly lateral flow fumonisin strip test that delivers accurate quantitative results in a matter of minutes while eliminating the risks and expense associated with on-site solvent use and disposal. 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 parts per million (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 less than (<) 4 ppm for products consumed by humans, < 5 ppm in horse feed, < 20 ppm for swine feed, and < 30 ppm for cattle feed.

The European Union (EU) recommends levels of fumonisin at or below: 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, and 4 ppm for unprocessed maize not intended for wet milling.

Fumo-V AQUA 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 30 ppm. Fumo-V AQUA eliminates the need for hazardous solvents using a water-based hands-free extraction. The sample preparation procedure saves time and materials, and the test strip develops in just 5 minutes.\* Digital results are displayed on the Vertu™ Touch Reader, eliminating the need for subjective visual interpretation.

### HERE'S HOW SIMPLE VICAM TESTS ARE TO USE:

- Weigh sample
- Add AQUA Solution, mix
- Filter
- Transfer to the Fumo-V test strip
- Incubate the test strip for 5 minutes
- Insert the Fumo-V test strip into the Vertu TOUCH Reader
- Read results

### BENEFITS

**Sustainable** - Safe, solvent-free testing

**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 lab

**Durable** - Long shelf life

**Accurate** - Real-time data which can be printed or downloaded to a computer

**Wide Range** - 0.2 to 30 ppm†



\*after extraction

\*\*limits of detection will vary based on procedure. Refer to manual

†with dilution

## ORDERING INFORMATION

Cat. No.	Description	Sample Type
176004974A	Fumo-V AQUA VT Kit (25 Tests)	corn
176005280B	Fumo-V AQUA VT DDG Kit (25 Tests)	DDGS

### Kit Contents

Cat. No.	Description	Sample Type
100000264A	Fumo-V Strips w/Barcode (25/Pk)	corn
100000264B	Fumo-V Strips w/Barcode (25/Pk)	DDGS
600001109	Micro-pipette tips (100 µL)	
600001716	V-Cup w/Filter, (25/Pk)	
715007434	Fumo-V AQUA VT Corn Procedure Poster	
715008737	Fumo-V AQUA VT DDGS Procedure Poster	

### Required but not included

Cat. No.	Description
100000339	AQUA premix solution (900 mL)
100000345	AQUA premix solution (4 L)
100000347	AQUA premix solution (20 L)

### Vertu TOUCH Basic Equipment Packages

Cat. No.	Description
176004970	Vertu TOUCH Basic Equipment Package, 110V/220V
176005142	Vertu TOUCH Basic Equipment Pkg, w/out Printer, 110V/220V

### Equipment Package Contents

Cat. No.	Description
725000678	Vertu TOUCH Reader
725000685	Vertu Sensor Dongle
600001928	Vertu PREP Mixer Base, 110/220V
176005007	Vertu PREP Mixer w/5 Tubes, 110/220V
600001926	Vertu TOUCH Dymo Printer, 110/220V
G4036	Digital Timer
600001108	Micro-Pipettor, 100 µL

### Supplies/Consumables

#### (included with Equipment Package)

Cat. No.	Description
600001724	Digital Pocket Balance
715007522	Vertu TOUCH Reader Quick Start Guide
600001933	Vertu TOUCH Reader Protective Case
600001929	Vertu PREP Extraction Tubes
600001109	Micro-Pipette Tips, 100 µL
600001939	Vertu TOUCH Printer Label/Paper, 1 Roll
600001107	Strip Test Vial Rack
600000937	Graduated Cylinder, 25 mL

Subject to change without notice.

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