VICAM®
A Waters Business

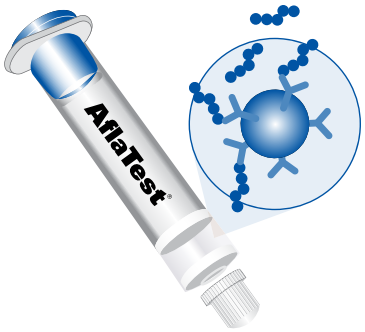
AflaTest®
MYCOTOXIN TESTING SYSTEM

Precise Numerical Results

Aflatoxin, a toxin from a naturally occurring mold, is a Group 1 carcinogen proven to cause cancer in humans. The United States federal government action level for aflatoxin in food for human consumption or in dairy cowfeed is 20 ppb. For milk for human consumption the level is 0.5 ppb. Levels up to 300 ppb are allowed in certain circumstances for nondairy animal feed.

AflaTest® from VICAM is the trusted aflatoxin test that produces precise numerical results. Using monoclonal antibody-based affinity chromatography, AflaTest can isolate aflatoxins B_1, B_2, G_1, and G_2 from feeds, food, grains, and nuts, and M_1 from dairy products.

AOAC and FGIS certified, AflaTest is safe and simple. It can be performed in less than 10 minutes and requires no special skills. Results may be recorded using a digital fluorometer readout or automatic printing devices. AflaTest is also ideal as the cleanup step for any HPLC analysis. With AflaTest, you have the best of all worlds: sensitivity, simplicity, and speed — quick tests for parts per billion levels. In fact, no other test comes close for speed, quantification, and economy.



BENEFITS

Convenient – For use with fluorometer or HPLC

Comprehensive – Total readings for all aflatoxins

Durable – Long shelf life; requires no refrigeration

Versatile – For use with a variety of samples

Quick – Less than 10 minutes to isolate toxin*

Wide Range – Detects levels as high as 1000 ppb and as low as 0.1 ppb**

Safe – Requires less toxic materials than other methods

HERE'S HOW SIMPLE VICAM TESTS ARE TO USE:

EXTRACT SAMPLE

- Grind and weigh sample
- Add salt and methanol/water mixture
- Blend and filter

DILUTE AND FILTER

- Dilute extract
- Filter

ABSORB AND ELUTE

- Pass filtrate over AflaTest affinity column
- Wash column with water
- Elute aflatoxins with methanol and collect in a cuvette

MEASURE

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

*excludes preparation and extraction
**1 ppb for grain and nuts

ORDERING INFORMATION

Cat. No.	Description
G8001	AflaTest Basic Equipment Package 110 V*
G8002	AflaTest Basic Equipment Package 220 V*
G1010	AflaTest Columns (25 per box)
12022	AflaTest Columns (50 per box)
G1040	AflaTest HPLC Kit (100 Columns + 1 set aflatoxin Standards)
G1035	AflaTest HPLC Kit (250 Columns + 1 set aflatoxin Standards)
G1036	AflaTest HPLC Kit (500 Columns + 2 sets aflatoxin Standards
G1124	Noniodized Sodium Chloride (salt, NaCl)
G2007	0.22 mm Nylon Membrane Syringe Filters (50 per pack)
G4033	Micro-pipettor, 1 mL
FLSEREX	Series-4EX® Fluorometer
20050	Graduated Cylinder, 50 mL
20100	Digital Scale with AC Adapter
20200	Commercial Blender with Stainless Steel Container
20250	Graduated Cylinder, 250 mL
20300	Glass Blender Jar
20501	500 mL Bottle Dispenser for Methanol (0-3 mL range)
20600	50 mL Bottle Dispenser for Developer (0-3 mL range)
20652	Disposable Plastic Pipets, 1 mL (50 per pack)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)
20700	Wash Bottle, 500 mL
21010	Cuvette Rack
21020	Single Position Pump Stand†

Cat. No.	Description
23040	Vortex Mixer
31240	VICAM Fluted Filter Paper, 24 cm (100)
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
31967	Kim Wipes
32010	AflaTest Developer (50 mL)
33020	Mycotoxin Calibration Standards
33030	AflaTest-FGIS Calibration Standards
33040	AflaTest-M Calibration Standards
33501	Tween 20 (50 mL)
34000	Disposable Cuvettes (250 per pack)
35016	Methanol, HPLC Grade (4 x 4 L)
36010	Disposable Plastic Beakers (25 per pack)
36020	Filter Funnel, 65 mm (10 per pack)
36222	Filter Funnel, 105 mm (4 per pack)

Also required, must be sourced locally:

Centrifuge capable of obtaining 2000 x g RCF, for milk testing only

Distilled, Reverse Osmosis, or Deionized Water

*Included in AflaTest Basic Equipment Package: Series-4EX fluorometer, digital scale, graduated cylinder (50 mL), graduated cylinder (250 mL), blender and blender jars, 500 mL bottle dispenser for methanol, 50 mL bottle dispenser for developer, disposable pipets (1 mL), wash bottle, fluted filter paper (100), microfiber filter paper (100), kim wipes, AflaTest developer, mycotoxin calibration standards, disposable cuvettes (250), cuvette holder, plastic beakers (25), filter funnel 65 mm (10), printer paper, single position pump stand with air pump and instruction manual

†Multiple position pump stands available

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