



**AflaTest®** Affinity Column



## 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 cow feed 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<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, and G<sub>2</sub> from feeds, food, grains, and nuts, and M<sub>1</sub> from dairy products.

AOAC and FGIS approved, *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 300 ppb and as low as 0.1 ppb\*\*

**Safe** - Requires less toxic materials than other methods

\*excludes preparation and extraction

\*\* 1 ppb for grain and nuts

### Here's How Simple AflaTest is to Use:

#### 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 *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



## Ordering Information

Cat. No.	Description
G8001	<i>AflaTest</i> ® Basic Equipment Package 110 V
G8004	<i>AflaTest</i> Peanut Basic Equipment Package, 110 V
G8013	<i>AflaTest</i> Basic Equipment Package 220 V
G1010	<i>AflaTest</i> Columns (25 per box)
12022	<i>AflaTest</i> Columns (50 per box)
G1124	Noniodized Sodium Chloride (salt, NaCl)
G2007	0.22 mm Nylon Membrane Syringe Filters (50 per pack)
G4033	Micro-pipettor, 1 mL
G8000	<i>Series-4EX Fluorometer</i> ™
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

Cat. No.	Description
21010	Cuvette Rack
21020	Single Position Pump Stand†
23040	Vortex Mixer
31240	VICAM Fluted Filter Paper, 24 cm (100)
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
31967	Kim Wipes
32010	<i>AflaTest</i> Developer (50 mL)
33020	Mycotoxin Calibration Standards
33030	<i>AflaTest</i> -FGIS Calibration Standards
33040	<i>AflaTest</i> -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 RCG\*  
Distilled, Reverse Osmosis, or Deionized Water

† Multiple position pump stands available

\* Required only for testing of milk

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 *AflaTest*® products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the *AflaTest* procedures.

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