



## 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<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

### CULTIVATING SUCCESS THROUGH SCIENCE™:

#### EXTRACT SAMPLE

- Grind and weigh sample
- Add salt and methanol/water mixture
- Filter

#### DILUTE AND FILTER

- Dilute extract
- Filter

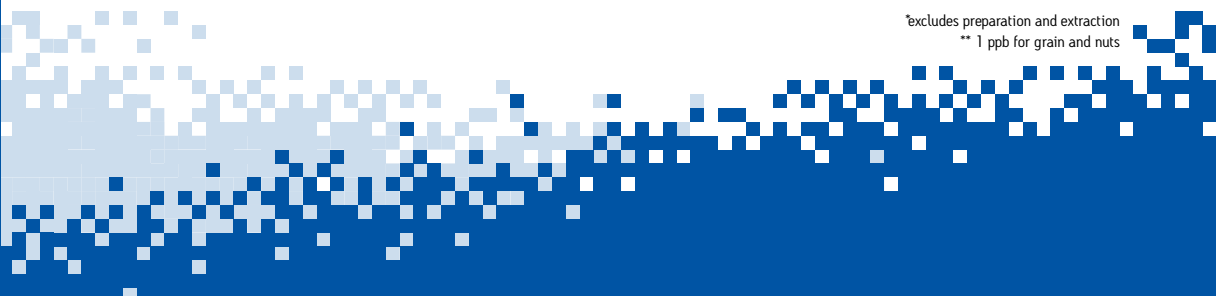
#### ABSORB AND ELUTE

- 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

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





## ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
G8001	AflaTest Basic Equipment Package 110 V	21010	Cuvette Rack
G8004	AflaTest Peanut Basic Equipment Package, 110 V	21020	Single Position Pump Stand†
G8013	AflaTest Basic Equipment Package 220 V	23040	Vortex Mixer
G1010	AflaTest Columns (25 per box)	31240	VICAM Fluted Filter Paper, 24 cm (100)
12022	AflaTest Columns (50 per box)	31955	Microfiber Filters, 1.5 µm, 11 cm (100)
G1124	Noniodized Sodium Chloride (salt, NaCl)	31967	Kim Wipes
G2007	0.22 mm Nylon Membrane Syringe Filters (50 per pack)	32010	AflaTest Developer (50 mL)
G4033	Micro-pipettor, 1 mL	33020	Mycotoxin Calibration Standards
G8000	Series-4EX Fluorometer™	33030	AflaTest-FGIS Calibration Standards
20050	Graduated Cylinder, 50 mL	33040	AflaTest-M Calibration Standards
20100	Digital Scale with AC Adapter	33501	Tween 20 (50 mL)
20200	Commercial Blender with Stainless Steel Container	34000	Disposable Cuvettes (250 per pack)
20250	Graduated Cylinder, 250 mL	35016	Methanol, HPLC Grade (4 x 4 L)
20300	Glass Blender Jar	36010	Disposable Plastic Beakers (25 per pack)
20501	500 mL Bottle Dispenser for Methanol (0-3 mL range)	36020	Filter Funnel, 65 mm (10 per pack)
20600	50 mL Bottle Dispenser for Developer (0-3 mL range)	36222	Filter Funnel, 105 mm (4 per pack)
20652	Disposable Plastic Pipets, 1 mL (50 per pack)		
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)		
20700	Wash Bottle, 500 mL		

**Also required, must be sourced locally:**

Centrifuge capable of obtaining 2000 x g RCF  
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 methods have been validated in the VICAM laboratories to perform to the specifications indicated in the AflaTest procedures. The user assumes all risk in using AflaTest procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that AflaTest 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 AflaTest products.

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