



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.

VICAM's AflaTest® is trusted by food and agriculture markets worldwide because it delivers precise numerical results. Using monoclonal antibody-based affinity chromatography, AflaTest can isolate aflatoxins B₁, B₂, G₁, and G₂ from feeds, food, grains, and nuts, and M₁ 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, obtain simple, sensitive and fast results in parts per billion levels. No other test comes close for speed, quantification and economy.



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

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

* Excluding preparation and extraction.
 ** 1 ppb for grain and nuts.



ORDERING INFORMATION

| Cat. No. | Description | Cat. No. | Description |
|----------|--|----------|--|
| G8001 | AflaTest® 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 | KimWipes |
| 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 | | |
| 21010 | Cuvette Rack | | |

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

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