



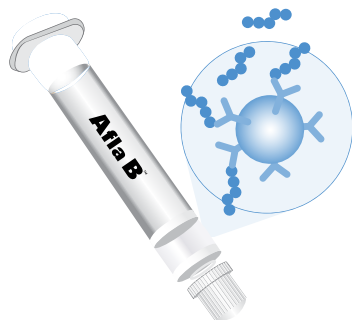
Precise Numerical Results

Aflatoxin, a toxin from a naturally occurring mold, is a Group 1 carcinogen, proven to cause cancer in humans. Aflatoxin is made up of the sum of 4 total aflatoxins: B₁, B₂, G₁, and G₂; however, in some cases only B₁ is regulated. For example, within the European Community, B₁ is regulated at the 2 ppb level.

Afla B™ from VICAM is the trusted aflatoxin B test that produces precise numerical results. Using monoclonal antibody-based affinity chromatography, Afla B can isolate aflatoxins B₁ and B₂ from feeds, food, grains, and nuts via fluorometric or HPLC detection.

Whereas aflatoxin B₁ can be singled out and measured uniquely by HPLC, in fluorometric measurements, total B₁ and B₂ is reported. Then it is known that B₁ accounts for 94% of total B₁ and B₂ as measured in corn and for 82.5% as measured in peanuts¹.

Afla B is safe and simple. It can be performed in less than 10 minutes and requires no special skills. With Afla B, you have the best of all worlds: sensitivity, simplicity, and speed – quick tests for parts per billion or parts per trillion levels. In fact, no other test comes close for speed, quantification, and economy.



BENEFITS

Convenient – For use with fluorometer or HPLC

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 low as 1 ppb (fluorometer) and 50 ppt (HPLC) and as high as 300 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 Afla B 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





ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
G1003	Afla B Columns (25 per box)	21020	Single Position Pump Stand†
G1004	Afla B Columns (50 per box)	23040	Vortex Mixer
G1124	Noniodized Sodium Chloride (salt, NaCl)	31240	VICAM Fluted Filter Paper, 24 cm (100)
FLSEREX	Series-4EX Fluorometer™	31955	Microfiber Filters, 1.5 µm, 11 cm (100)
G8001	AflaTest® Basic Equipment Package 110 V	31967	Kim Wipes
G8013	AflaTest Basic Equipment Package 220 V	32010	AflaTest Developer (50 mL)
20050	Graduated Cylinder, 50 mL	33020	Mycotoxin Calibration Standards
20100	Digital Scale with AC Adapter	34000	Disposable Cuvettes (250)
20200	Commercial Blender with Stainless Steel Container	35016	Methanol, HPLC Grade (4 x 4L)
20250	Graduated Cylinder, 250 mL	36010	Disposable Plastic Beakers (25)
20501	500 mL Bottle Dispenser for Methanol (0 – 3 mL range)	36020	Filter Funnel, 65 mm (10)
20600	50 mL Bottle Dispenser for Developer (0 – 3 mL range)	36222	Filter Funnel, 105 mm (4)
20652	Disposable Plastic Pipets, 1 mL (50)		
20700	Wash Bottle, 500 mL		
21010	Cuvette Rack		

Also required, must be sourced locally:

Distilled, Reverse Osmosis, or Deionized Water

†Multiple position pump stands available

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 Afla B products. These methods have been validated in the VICAM laboratories to perform to the specifications indicated in the Afla B procedures. The user assumes all risk in using Afla B procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that Afla B 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 Afla B products.

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