



Precise Numerical Results

Aflatoxins, potent liver toxins from naturally occurring molds, are classified as a Group 1 human carcinogen. Governments throughout the world have imposed strict legal limits on aflatoxin levels in food. The European Union's aflatoxin regulations for groundnuts, tree nuts, dried fruit, spices, and cereals include limits as low as 4 ppb total aflatoxins and 2 ppb for aflatoxin B1. Some EU member states have also separately established their own maximum limits on aflatoxins.

VICAM's new AflaTest® WB SR uses immunoaffinity chromatography to selectively isolate aflatoxins B₁, B₂, G₁, G₂, and M₁ for HPLC analysis. The SR test kit's fast-flow widebore columns are specially designed to maximize aflatoxin G₂ recovery and accelerate sample throughput.

AflaTestWB SR is the latest addition to VICAM's growing line of wide-bore column HPLC-only test kits. VICAM's continued expansion of this fast-flow WB product line demonstrates our ongoing commitment to improving mycotoxin testing and responding to our customers' needs.



BENEFITS

Powerful – Designed exclusively for laboratory use

Enhanced Recovery – Improved aflatoxin G₂ recovery

Comprehensive – Determines individual aflatoxin levels (B₁, B₂, G₁, G₂, and M₁) and total (B₁, B₂, G₁, and G₂) concentration

Durable – Long shelf life; requires no refrigeration

Versatile – For use with a variety of samples

Quick – 15 minutes to isolate toxin*

Wide Range – Detects total aflatoxin levels as high as 500 ng and as low 0.005 ng for total aflatoxin

Fast Flow – Passes more volume over the column

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 AflaTestWB SR affinity column
- Wash column
- Elute aflatoxins with methanol and collect in cuvette

MEASURE

- Dilute and inject eluate into HPLC
- Determine aflatoxin concentration

* Excluding preparation and extraction



ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
G1068	AflaTest®WB SR Columns (25 per Box)	20700	Wash Bottle, 500 mL
G1118	WB Column Coupling (6)	21010	Cuvette Rack
G1124	Noniodized Sodium Chloride (Salt, NaCl)	21020	Single Position Pump Stand*
G4033	Micro-pipettor, 1 mL	31240	VICAM Fluted Filter Paper, 24 cm (100)
20050	Graduated Cylinder, 50 mL	31955	Microfiber Filters, 1.5 µm, 11 cm (100)
20100	Digital Scale with AC Adapter	34000	Disposable Cuvettes (250 per pack)
20200	Commercial Blender with Stainless Steel Container	35016	Methanol, HPLC Grade (4 X 4 L)
20250	Graduated Cylinder, 250 mL	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)
20652	Disposable Plastic Pipets, 1 mL (50)	36022	Filter Funnel, 105 mm (4 per pack)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)		

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 Waters to be used exclusively with AflaTest WB SR products. These analytical methods have been validated in the Waters laboratories to perform to the specifications indicated in the AflaTest WB SR procedures. The user assumes all risk in using AflaTest WB SR analytical procedures and products. Waters makes no warranty of any kind, expressed or implied, other than that AflaTest WB SR 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. Waters 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 WB SR products.

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