



AflaTest[®] WB SR Affinity Column

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 wide-bore 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

*excluding preparation and extraction

Here's How Simple Aflatest WB SR 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 WB SR affinity column
- Wash column
- Elute aflatoxins with methanol and collect in cuvette

Measure

- Dilute and inject eluate into HPLC
- Determine aflatoxin concentration



Ordering Information

Cat. No.	Description
G1068	AflaTest [®] WB SR Columns (25 per Box)
G1118	WB Column Coupling (6)
G1124	Noniodized Sodium Chloride (Salt, NaCl)
G4033	Micro-pipettor, 1 mL
20050	Graduated Cylinder, 50 mL
20100	Digital Scale with AC Adapter
20200	Commercial Blender with Stainless Steel Container
20250	Graduated Cylinder, 250 mL
20501	500 mL Bottle Dispenser for Methanol (0-3 mL range)
20652	Disposable Plastic Pipets, 1 mL (50)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)

Cat. No.	Description
20700	Wash Bottle, 500 mL
21010	Cuvette Rack
21020	Single Position Pump Stand [†]
31240	VICAM Fluted Filter Paper, 24 cm (100)
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
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)
36022	Filter Funnel, 105 mm (4 per pack)

Also required; must be sourced locally:

Distilled, Reverse Osmosis, or Deionized Water

[†] Multiple position pump stands available

VICAM

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313 Pleasant Street
Watertown, MA 02472 USA

Tel: 800.338.4381
+1.617.926.7045

Fax: +1.617.923.8055

vicam@vicam.com

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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[®]WB SR products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the AflaTest WB SR procedures.

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