



**AflaTest<sup>®</sup> WB Affinity Column**

## Precise Numerical Results

Aflatoxin, a toxin from a naturally occurring mold, is a Group 1 carcinogen proven to cause cancer in humans. Throughout the world, there are significant regulations regarding the presence of aflatoxins in food. The European Union possesses regulations for aflatoxins in groundnuts, nuts, dried fruit, spices, and cereals with limits as low as 4 ppb total aflatoxins and 2 ppb for aflatoxin B<sub>1</sub>. Additionally, EU member states have established their own maximum levels for aflatoxins which are separate from the EU regulations.

Using monoclonal antibody-based affinity chromatography, *AflaTest<sup>®</sup> WB* is a new HPLC-only test for the detection of aflatoxins using wide bore immunoaffinity columns. With a total volume of 3 mL, compared to the total of 1 mL in VICAM's standard columns, *AflaTest WB* allows for a faster flow rate preferred by many laboratories and is the ideal cleanup step for any HPLC.

*AflaTest WB* is one of many wide bore columns available from VICAM. Through the development of this fast-flow WB product line, VICAM demonstrates a commitment to improving mycotoxin testing and responding to our customers' needs.

### **Benefits:**

**Exclusive** – Specifically for HPLC use

**Comprehensive** – Total readings for all aflatoxins

**Durable** – Long shelf life; requires no refrigeration

**Versatile** – For use with a variety of samples

**Quick** – 15 minutes to isolate toxin\*

**Wide Range** – Detects levels as high as 100 ppb and as low as 0.03 ppb for aflatoxin B<sub>1</sub>

**Fast Flow** – Passes more volume over the column

### **Here's How Simple Aflatest WB 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* 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
G1024	AflaTest WB Columns (25 per Box)
G1025	AflaTest WB Columns (50 per Box)
G1061	AflaTest WB HPLC Kit-100 Columns and 1 Set Standards
G1062	AflaTest WB HPLC Kit-250 Columns and 1 Set Standards
G1063	AflaTest WB HPLC Kit-500 Columns and 2 Sets Standards
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)

Cat. No.	Description
G1124	Noniodized Sodium Chloride (Salt, NaCl)
G1118	WB Column Coupling (6)
20050	Graduated Cylinder, 50 mL
20100	Digital Scale with AC Adapter
20200	Commercial Blender with Stainless Steel Container
20250	Graduated Cylinder, 250 mL
20700	Wash Bottle, 500 mL
21010	Cuvette Rack
21020	Single Position Pump Stand <sup>†</sup>
36020	Filter Funnel, 65 mm (10 per Pack)
G4033	Micro-pipettor, 1 mL
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)

<sup>†</sup> Multiple position pump stands available

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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<sup>®</sup>WB products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the AflaTest WB procedures.

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## VICAM<sup>®</sup>

» Cultivating Success through Science<sup>®</sup>

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