



## 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/peanuts, tree nuts, dried fruit, spices, cereal grains and vegetable oils include limits as low as 4 ppb total aflatoxins and 2 ppb for aflatoxin B<sub>1</sub>. Some EU member states have also separately established their own maximum limits on aflatoxins.

AflaTest WB SR+ employs powerful monoclonal antibodies to selectively bind and retain aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>, M<sub>1</sub>, M<sub>2</sub> and sterigmatocystin for detection by LC. Uniquely designed to maximize recoveries in the presence of high concentrations of organic solvents such as acetonitrile (30%) or methanol (40%), the simple sample prep method may be used for a wide range of sample types — simplifying workflows and reducing time to result.

AflaTest WB SR+ is the newest member of VICAM's growing lineup of fast-flow LC and LC-MS/MS sample prep tools, delivering unmatched performance and trusted, defensible data for food and agricultural laboratories worldwide.



### BENEFITS

**Powerful** - Designed to perform superior to AOAC Method performance requirements

**Solvent Tolerant** - Proprietary antibodies perform well in the presence of 30% Acetonitrile or 40% Methanol

**Complex Samples** - Exceptional performance (>90% recovery) in spices, herbs, grains, feeds, peanuts and peanut oil

**Comprehensive** - Detect and quantify aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>, M<sub>1</sub>, M<sub>2</sub> and Sterigmatocystin

**Wide Range** - Detects total aflatoxin levels as high as 1,000 ng and as low as 0.05 ng

**Quick** - 15 Minutes to isolate toxins\*

### HERE'S HOW SIMPLE VICAM TESTS ARE TO USE:

#### EXTRACT SAMPLE

- Grind and weight sample
- Add extraction solvent(s)
- Blend & filter

#### DILUTE AND FILTER

- Dilute extract
- Filter

#### ABSORB AND ELUTE

- Pass filtrate over AflaTest WB SR+ affinity column
- Wash column
- Elute aflatoxins and collect in cuvette

#### MEASURE

- Dilute and inject eluate into LC
- Determine aflatoxin concentration

\* Excluding preparation and extraction

## ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
176004746	AflaTest WB SR+ Columns (25/box)	34000	Disposable Cuvettes (250 per pack)
176004754	AflaTest WB SR+ LC Kit (100 Cols + 1 Set Stds)	G1113	10X Concentrate of PBS (150 mL)
G1118	WB Column Coupling (6)	G1105	5X Concentrate of 2% Tween PBS, 300 mL
G4033	Micro-pipettor, 1 mL	35016	Methanol, HPLC Grade (4 X 4 L)
20050	Graduated Cylinder, 50 mL	36010	Disposable Plastic Beakers (25 per Pack)
20100	Digital Scale with AC Adapter	20300	Eberbach Glass Blender Jar, 500 mL
20200	Commercial Blender with Stainless Steel Container	36020	Filter Funnel, 65 mm (10 per Pack)
20250	Graduated Cylinder, 250 mL	36022	Filter Funnel, 105 mm (4 per pack)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)	715007173	AflaTest WB SR+ Instruction Manual
20700	Wash Bottle, 500 mL		
21010	Cuvette Rack		
21040	2-Position Pump Stand w/Air Pump		
21045	4-Position Pump Stand w/2 Air Pumps		
31240	VICAM Fluted Filter Paper, 24 cm (100)		
31955	Microfiber Filters, 1.5 µm, 11 cm (100)		

**Also required; must be sourced locally:**

Distilled, Reverse Osmosis, or Deionized Water  
Acetonitrile



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