



AflaOchra HPLC 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 on the presence of aflatoxins in food. The European Commission has action levels for aflatoxins in groundnuts, nuts, dried fruit, and cereals intended for direct human consumption or for ingredients in foodstuffs. These action levels are 4 ppb total aflatoxins and 2 ppb for aflatoxin B₁.

Ochratoxin A is a mycotoxin produced by the fungus *Aspergillus ochraceus* and also by several species of *Penicillium*. Ochratoxin A has been known to cause kidney damage in animals and is a suspected carcinogen.

AflaOchra HPLC™ from VICAM is the only test that employs a single column to produce precise numerical results in determining both aflatoxin and ochratoxin levels. Using monoclonal antibody-based affinity chromatography, *AflaOchra HPLC* can isolate aflatoxins B₁, B₂, G₁, and G₂ from grain, food, feed, and nuts and ochratoxin A and its stereoisomer from coffee, beer, grain, and feed. With *AflaOchra HPLC* you have the best of all worlds: sensitivity, simplicity, and speed—quick tests with results in parts per billion. In fact, no other test comes close for speed, quantification, and economy.

Benefits:

Exclusive – For HPLC use only

Comprehensive – Detects aflatoxins B₁, B₂, G₁, and G₂, ochratoxin A and its stereoisomer

Durable – Long shelf life; requires no refrigeration

Versatile – Can be used with a variety of samples

Quick – Less than 10 minutes to isolate toxins*

Wide Range – Measures levels as low as 0.25 ppb and as high as 100 ppb

Safe – Requires less toxic materials than other methods

*excludes preparation and extraction

Here's How Simple AflaOchra HPLC 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 *AflaOchra HPLC* affinity column
- Wash column
- Elute aflatoxins and ochratoxin A and collect in cuvette

Measure

- Inject eluate into HPLC and determine aflatoxins and ochratoxin A concentrations



Ordering Information

Cat. No.	Description
G1017	AflaOchra HPLC™ Columns (25 per box)
G1118	WB Column Coupling
G1124	Noniodized Sodium Chloride (Salt, NaCl)
G1130	Acetonitrile (4 x 4 L)
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
20300	Glass Blender Jar
20501	500 mL Bottle Dispenser for Methanol (0-3 mL range)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)
20700	Wash Bottle, 500 mL
21010	Cuvette Rack
21020	Single Position Pump Stand†

Cat. No.	Description
23040	Vortex Mixer
31240	VICAM Fluted Filter Paper, 24 cm (100)
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
31967	Kim Wipes
34000	Disposable Cuvettes (250 per pack)
34010	Glass Syringe, 10 mL
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

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 AflaOchra HPLC™ products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the AflaOchra HPLC procedures.

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