



Afla M₁ HPLC Affinity Column

Precise Numerical Results

Aflatoxin M₁, a toxin found in milk, is derived from ingested aflatoxin. A known carcinogen, the detection of M₁ is critical because this aflatoxin is found in milk, a major source of nutrition for infants, children, and adults. Throughout the world, there are significant regulations on the presence of M₁ in dairy products. VICAM's Afla M₁TM HPLC is a fast flow column that delivers recovery rates from 75% to 95% depending on the sample.

Using monoclonal antibody-based affinity chromatography, Afla M₁ HPLC is an HPLC-only test for the detection of aflatoxin M₁ using immunoaffinity columns. Performed in less than 30 minutes, Afla M₁ HPLC can measure levels of Afla M₁ as low as 10 ppt and as high as 3 ppb.

An ideal cleanup step for any HPLC, Afla M₁ HPLC has a long shelf life and provides precise numerical results in parts per billion or parts per trillion levels. The preferred test of laboratories around the world, no other test comes close for speed, quantification, and specificity.

Benefits:

Exclusive – Specifically for HPLC use

Durable – Long shelf life; requires no refrigeration

Versatile - Can be used with a variety of milk samples

Quick – Sample ready in less than 30 minutes

Wide Range - Detects levels as low as 10 ppt and as high as 3 ppb

Safe – Requires less toxic materials than other methods

Here's How Simple Afla M₁ HPLC is to Use:

Prepare Sample

- Centrifuge

Absorb and Elute

- Pass sample over Afla M₁ HPLC affinity column
- Wash column
- Elute aflatoxin M₁ and collect in cuvette

Measure

- Inject eluate into HPLC
- Determine aflatoxin M₁ concentration



Ordering Information

Cat. No.	Description
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G1007	Afla M ₁ ™ HPLC Columns (25 per box)
G1106	Afla M ₁ HPLC Single Position Pump Stand, 10 mL & 60 mL [†]
G1108	Cuvette Holder
G1118	WB Column Coupling (6 per pack)
G1130	Acetonitrile, HPLC Grade (4 x 4 L)
G4033	Micro-pipettor, 1 mL
20050	Graduated Cylinder, 50 mL
20100	Digital Scale with AC Adapter
20250	Graduated Cylinder, 250 mL
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)

Cat. No.	Description
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20700	Wash Bottle, 500 mL
21010	Cuvette Rack
23040	Vortex Mixer
34000	Disposable Cuvettes (250 per pack)
35016	Methanol, HPLC Grade (4 x 4 L)
36010	Disposable Plastic Beakers (25 per pack)

Also required, must be sourced locally:

Centrifuge
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 Afla M₁™ HPLC products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the Afla M₁ HPLC procedures.

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