



Precise Numerical Results

Aflatoxin M₁, a toxin found in milk, is produced by dairy cows upon ingestion of contaminated grains. A known, highly potent carcinogen, aflatoxin M₁ presents significant risk to dairy products, a major source of nutrition for infants, children and adults. Strict global regulatory limits govern how much aflatoxin M₁ may be present in dairy products. VICAM's Afla M₁[™] HPLC delivers the results dairies need using a fast-flow column that delivers 75% to 95% recovery 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 VICAM TESTS ARE 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



ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
G1007	Afla M ₁ HPLC Columns (25 per box)	20700	Wash Bottle, 500 mL
G1043	Afla M ₁ HPLC Kit (100 columns + 4 Standards)	21010	Cuvette Rack
G1039	Afla M ₁ HPLC Kit (250 columns + 10 Standards)	23040	Vortex Mixer
G1106	Afla M ₁ HPLC Single Position Pump Stand, 10 mL & 60 mL [†]	34000	Disposable Cuvettes (250 per pack)
G1108	Cuvette Holder	35016	Methanol, HPLC Grade (4 x 4 L)
G1118	WB Column Coupling (6 per pack)	36010	Disposable Plastic Beakers (25 per pack)
G4033	Micro pipettor, 1 mL	Also Required; Must be Sourced Locally:	
20050	Graduated Cylinder, 50 mL	Centrifuge	
20100	Digital Scale with AC Adapter (for powdered milk)	Distilled, Reverse Osmosis, or Deionized Water	
20250	Graduated Cylinder, 250 mL	[†] Multiple position pump stands available	

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