



Afla M₁ FL⁺™ Mobile Bead Column

Precise Numerical Results

Aflatoxin M₁, a toxin found in milk, is derived from ingested aflatoxin. Aflatoxins are known carcinogens. Detection of aflatoxin M₁ is critical because this toxin 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 M₁ FL⁺™ is the ideal solution to determining levels of M₁ in milk in parts per trillion (ppt) using a fluorometer.

Afla M₁ FL⁺ from VICAM is a rapid aflatoxin test which produces precise numerical results. Using monoclonal antibody-based affinity chromatography, Afla M₁ FL⁺ can isolate aflatoxin M₁ from fluid milk.

Afla M₁ FL⁺ is safe and simple. It can be performed rapidly and requires no special skills. You have the best of all worlds: speed, sensitivity, and simplicity – quick tests for parts per trillion without the need of HPLC.

Furthermore, Afla M₁ FL⁺ has a long shelf life. In fact, no other test comes close for speed, quantification, and economy.

Benefits:

Exclusive – Specifically for fluorometer use

Durable – Long shelf life; requires no refrigeration

Quick – 25 minutes to isolate toxin*

Wide Range – Detects levels as low as 12.5 ppt and as high as 200 ppt without HPLC analysis

Safe – Requires less toxic materials than conventional test methods

*excluding preparation and extraction

Here's How Simple Afla M₁ FL⁺ is to Use:

Prepare Sample

- Centrifuge
- Remove skim milk portion

Bind and Elute

- Pass sample over Afla M₁ FL⁺ mobile bead column
- Remove frit and wash column
- Elute aflatoxin M₁ from column and collect in a cuvette

Measure

- Add developer and place cuvette into a calibrated fluorometer
- Read results in ppt



Ordering Information

Cat. No.	Description	Cat. No.	Description
G8044	<i>Afla M₁ FL⁺</i> Basic Equipment Package (110 Volt)	36010	Disposable Plastic Beakers (25 per pack)
G8055	<i>Afla M₁ FL⁺</i> Basic Equipment Package (220 Volt)	32010	<i>AflaTest</i> ® Developer (50 mL)
G1047	<i>Afla M₁ FL⁺</i> Columns (25/box)	33040	<i>AflaTest-M</i> ™ Calibration Standards
G1106	<i>Afla M₁ FL⁺</i> Single Position Pump Stand (10 mL & 60 mL syringes)	31967	Kim Wipes
G1107	<i>Afla M₁ FL⁺</i> 4-Position Pump Stand (10 mL & 60 mL syringes)	G4033	Micro-pipettor, 1 mL
20050	Graduated Cylinder, 50 mL	G8000	<i>Series-4EXFluorometer</i> ™
20700	Wash Bottle, 500 mL	G1129	Frit Picker
21010	Cuvette Rack	20600	50 mL Bottle Dispenser for Developer
23040	Vortex Mixer	20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)
34000	Cuvettes (250 per pack)	G1118	WB Column Coupling (6)
35016	Methanol, HPLC Grade (4 x 4L)		

Also required; must be sourced locally:

Centrifuge capable of obtaining 2000 x g RCF
Purified Water

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

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