



- **Quick** – Sample ready in less than 30 minutes for HPLC analysis (excluding sample preparation)
- **Sensitive** – Detects levels as low as 10 ppt
- **Wide Range** – Measures levels as high as 3 ppb
- **Recovery** – Recovery rates from 75% to 95%
- **Safe** – Requires less toxic materials than conventional methods

Precise Numerical Results

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

Afla M₁ from VICAM is a rapid Aflatoxin test which produces precise numerical results. Using monoclonal affinity chromatography, Afla M₁ can isolate aflatoxin M₁ from dairy products.

Afla M₁ is safe and simple. It can be performed rapidly and requires no special skills. And, you have the best of all worlds: sensitivity, simplicity, and speed – quick tests for parts per billion or per trillion. Afla M₁ is also ideal as the cleanup step for any HPLC.

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

Here's how simple Afla M₁ is to use:

Prepare Sample

- Centrifuge

Absorb and Elute

- Pass sample over Afla M₁ affinity column
- Pass water over column
- Elute aflatoxin M₁ from the column and collect in a cuvette

Measure

- Inject eluate into HPLC
- Determine M₁ concentration by HPLC

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Afla M₁:

- HPLC readout only
- Requires no special storage or refrigeration
- Has shelf life of one year
- Not affected by heat or humidity up to 30°C
- Can be used with a variety of milk samples

Ordering Information

Cat. No.	Description
G1007	Afla M ₁ columns, (25)
G1106	Afla M ₁ single position pump stand, 10 mL & 60 mL
G1107	Afla M ₁ 4-position pump stand, 10 mL & 60 mL
G1108	Cuvette holder
G1109	Column coupling
20050	Graduated cylinder, 50 mL
20100	Digital scale & adapter
20250	Graduated cylinder, 250 mL
20700	Wash bottle, 500 mL
21010	Cuvette rack
23040	Vortex mixer
34000	Cuvettes (250)
35016	Methanol, HPLC grade, 4 x 4L bottles
36010	Disposable plastic beakers
G9512	Afla M ₁ instruction manual

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313 PLEASANT STREET
WATERTOWN, MA 02472
TEL: 800-338-4381, 617-926-7045
FAX: 617-923-8055
WEB SITE: www.vicam.com
E-MAIL: vicam@vicam.com

The analytical methods presented in this data sheet have been researched and developed by VICAM to be used exclusively with Afla M₁™ products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the Afla M₁ procedures.

The user assumes all risk in using Afla M₁ analytical procedures and products. VICAM makes no warranty of any kind, express or implied, other than that Afla M₁ products conform to VICAM's printed specification and quality control standards. VICAM will at its option repair or replace any product or part thereof which proves to be defective in workmanship or material. VICAM's undertaking to repair or service such products is exclusive and is in lieu of all other warranties whether written, oral, expressed, or implied, including any implied warranty of merchantability or fitness for a particular purpose. VICAM shall have no liability for anticipated or lost profits or any loss, inconvenience or damage whether direct, indirect, incidental, consequential or otherwise, to person or property, or for strict liability or negligence arising from or in connection with the use of these assay procedures or Afla M₁ products.