



- **Quick** – Less than 10 minutes to test (excluding sample preparation and extraction)
- **Sensitive** – Detects levels as low as 1 ppb (total aflatoxin) for Fluorometer and 50 ppt (B₁) for HPLC
- **Wide Range** – Measures levels as high as 300 ppb
- **Convenient** – Uses same extract and instrumentation for other mycotoxins
- **Recovery** – Exceeds 85%
- **Safe** – Requires less toxic materials than conventional methods

Precise Numerical Results

Aflatoxin, a toxin from a naturally occurring mold, is a Group 1 carcinogen, proven to cause cancer in humans. Aflatoxin is made up of the sum of 4 total aflatoxins: B₁, B₂, G₁, and G₂; however, in some cases only B₁ is regulated. For example, within the European Community, B₁ is regulated at the 2ppb level.

Using *Afla B*, aflatoxins B₁ and B₂ can be isolated, and B₁ can be measured by HPLC. In fluorometer measurements, total B₁ and B₂ is reported, and it is known that B₁ accounts for 94% of total B₁ and B₂ measured in corn¹. B₁ accounts for 82.5% of total B₁ and B₂ measured in peanuts¹.

Afla B is safe and simple. It can be performed in less than 10 minutes and requires no special skills. Results may be recorded using a digital fluorometer readout, automatic printing devices, or HPLC. And, you have the best of all worlds: sensitivity, simplicity, and speed. *Afla B* is also ideal as the cleanup step for HPLC or TLC analysis. In addition, *Afla B* has a shelf life of one year. In fact, no other test comes close for speed, quantification, and economy.

Here's how simple Afla B is to use:

Extract Sample

- Grind and weigh sample
- Blend sample with salt and methanol/water mixture
- Filter

Dilute and Filter

- Dilute a portion of the filtered extract with water
- Filter

Absorb and Elute

- Pass a portion of filtrate over *Afla B* affinity column
- Wash column with water
- Elute aflatoxins from the column with methanol and collect in a cuvette

Measure

- Add developer to eluate and place cuvette into a calibrated fluorometer and read results in ppb, or
- Inject eluate into HPLC
- Determine aflatoxin concentration by HPLC

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1. Data supplied by D. M. Wilson (unpublished), Department of Plant Pathology, Coastal Plain Experiment Station, University of Georgia, Tifton, GA 31793, USA

Afla B:

- Digital readout in ppb or can be used as a clean up for HPLC
- Accurate estimates of B₁ content can be obtained by fluorometer, or precise quantification of B₁ and B₂ can be obtained by HPLC
- 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 samples

Ordering Information

Cat. No.	Description	Cat. No.	Description
G8001/ G8002	AflaTest Series-4 Fluorometer Basic Equipment Package G8001, 110 V for U.S.A./ G8002, 220 V for International Includes Series-4 Fluorometer, Series 4 printer paper, Mycotoxin Instructional Video, waste collection beaker, plastic funnels, glass syringe (10mL), disposable cuvettes, mycotoxin calibration standards, <i>AflaTest</i> Developer, Kim Wipes tissue (1 box), microfibre filters (11 cm), VICAM fluted filter paper (24 cm), single position pump stand, cuvette rack, wash bottle (500 mL), disposable plastic pipets, 1 bottle dispenser for developer (50 mL), 1 bottle dispenser for methanol (500mL), 2 glass blender jars (500 mL), graduated cylinder (250 mL), commercial blender with stainless steel container, digital scale with adapter, graduated cylinder (50mL) and <i>AflaTest</i> instruction manual.	G1003 G1004 33020 34000 35016	<i>Afla B</i> Columns, 25/box <i>Afla B</i> Columns, 50/box Mycotoxin Calibration Standards Cuvettes, 250/pack Methanol, HPLC Grade, 4 x 4L bottles

Each item available individually.



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

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