



Precise, Quantitative and Fast Results

VICAM's Afla-V strip tests answer one of today's toughest food safety challenges with a new user-friendly lateral-flow Afla test that delivers accurate quantitative results in a matter of minutes. Aflatoxin, a toxin from a naturally occurring mold, is a Group 1 carcinogen proven to cause cancer in humans. Aflatoxin can also cause economic losses in livestock due to disease or reduced efficiency of production.

The United States federal government action level for aflatoxin in food for human consumption or in dairy cow feed is 20 ppb. For milk for human consumption the level is 0.5 ppb. Levels up to 300 ppb are allowed in certain circumstances for non-dairy animal feed.

The European Community has regulations for aflatoxin levels that range from 4 ppb in processed cereal-based foods for infants and young children to 15 ppb for peanuts or other tree nuts. In Asia, regulations for aflatoxin range from non detectable to 20 ppb for food.

Afla-V test strips utilize the proven sensitivity and selectivity of VICAM's monoclonal antibodies to accurately detect and measure total aflatoxins B₁, B₂, G₁, and G₂ at levels as low as 5 ppb and as high as 100 ppb. The single-dilution sample preparation procedure saves time and materials, and the test takes 5 minutes* to develop. Digital readings are clearly displayed on the screen of the Vertu™ Lateral Flow Reader, eliminating any guess work about the results.

BENEFITS

Fast screening – Results in 5 minutes*

Simple – No special training required

Sensitive – Limits of detection as low as 2.5 ppb

Convenient – Easily performed onsite or in the lab. No Incubation

Durable – Long shelf life

Accurate – Real-time data which can be printed or downloaded to a computer

Wide Range - 0 to 100 ppb

Cultivating Success Through Science™:

- Weigh Sample
- Extract with 70% methanol
- Transfer sample extract to the Dilution Tube
- Mix with Diluent
- Transfer to the Afla-V strip test
- Incubate the strip test for 5 minutes
- Insert the Afla-V strip test into the Vertu reader
- Read results

*after extraction

† this procedure has been validated for peanuts.

ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
176002071	Afla-V test kit (25)	600001108	Micro-Pipettor, 100 µL
100000247	Afla-V strip tests (25)	G4047	Graduated Cylinder, 10 mL
100000249	Afla-V Strip Test Diluent, 6 mL	G4036	Digital Timer
600000813	Strip Test Vials, 1.5 mL (25)	23040	Vortex mixer
600001109	Micro-Pipette Tips, 100 µL (50)	725000574	Vertu Reader, 110 V & 220 V
600001106	Filter Paper (25)	725000576	Vertu Bar-code reader
600000827	Extraction Tubes, 40 mL (25)	725000577	Printer, 110 V & 220 V
715002409	Afla-V Instruction Guide		
600001107	Strip test vial rack		
715002731	Afla-V Procedure Poster		
7150027321	Afla-V Barcode Set		

Also required, must be sourced locally:
70% methanol

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-V products. These methods have been validated in the VICAM laboratories to perform to the specifications indicated in the Afla-V procedures. The user assumes all risk in using Afla-V procedures and products. VICAM makes no warranty of any kind, expressed or implied, other than that Afla-V products conform to Waters' printed specification and quality control standards. Waters 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-V products.

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