VICAM’s mission is rooted in the fundamental human need for safe and abundant food supply. As awareness of the dangers of naturally occurring agricultural contaminants continues to grow, concern about the safety and quality of globally sourced food has become increasingly widespread. The need to routinely monitor for the occurrence of these contaminants inspired VICAM’s commitment to the research, development, and worldwide distribution of advanced rapid diagnostic solutions for food safety.

VICAM stands ready to meet the needs of every sector of today’s complex global supply chain. With a comprehensive product line vetted by industry leaders and trusted by customers in more than 100 countries, VICAM is the global provider of choice for next-generation food safety technology and rapid mycotoxin test solutions.
2 Markets

4 Botanicals
5 Coffee
6 Corn
7 Dairy
8 DDGs/Ethanol
9 Dried Fruit
10 Feed and Grain
11 Peanuts
12 Pet Food
13 Rice
14 Spices
15 Tree Nuts
16 Wheat

17 Technologies

18 HPLC/UPLC and LC-MS
19 Fluorometer
20 Lateral Flow Reader
21 Quantitative Strip Tests
22 Qualitative Strip Tests

23 Products

23 Aflatoxin Testing Solutions
34 Citrinin Testing Solutions
36 Deoxynivalenol Testing Solutions
41 Fumonisnin Testing Solutions
45 Ochratoxin Testing Solutions
49 T-2 Testing Solutions
51 Zearalenone Testing Solutions
54 Multi-Analyte Testing Solutions
[ MARKETS ]
Botanicals

To ensure the purity and safety of Botanical products, manufacturers monitor for the presence of mycotoxins such as aflatoxin and ochratoxin A. Botanical and herbal products are subject to global regulatory limits as low as 10 parts per billion (ppb) for ochratoxin A, and 2 ppb for aflatoxin B₁ for edible products. VICAM offers a full range of on-site detection systems and laboratory methods for quantitation and confirmation to meet regulatory limits for mycotoxins in botanicals.

Botanicals Mycotoxin Testing Solutions

- AflaOchra™
- AflaTest®
- AflaTest® WB
- OchraTest™
- OchraTest™ WB
Coffee

Coffee is among several food and agricultural commodities required to meet regulatory limits for mycotoxins such as ochratoxin. VICAM offers on-site and laboratory based methods for ochratoxin A detection at levels as low as 2 ppb, easily meeting EU and other export regulatory limits. Pro-active monitoring ensures that only the highest quality coffee reaches the marketplace, establishing brand strength and trust across the global supply chain.

Coffee Mycotoxin Testing Solutions

- OchraTest
- OchraTest WB
- Ochra-V™

www.vicam.com/coffee
**Corn**

Corn/maize is at risk for the presence of mycotoxins such as aflatoxin, vomitoxin (DON), fumonisin, zearalenone and ochratoxin. Global regulations set limits for maximum allowable levels of mycotoxins in maize as low as 2 parts per billion (ppb) for aflatoxin B₁, 750 ppb deoxynivalenol (DON), 200 ppb fumonisin, 3 ppb ochratoxin A and 60 ppb of zearalenone. VICAM offers a full range of versatile, practical screening and quantitative solutions for on-site and laboratory detection of mycotoxins in corn.

**Corn Mycotoxin Testing Solutions**

- AflaOchra™ HPLC
- AOZ® HPLC
- AflaTest
- AflaTest WB
- Afla-V®
- AflaCheck®
- CitriTest®
- DON-V®
- DONCheck™
- DONtest™ HPLC
- FumoniTest™
- FumoniTest™ WB
- Fumo-V®
- Myco6in1+®
- OchraTest
- OchraTest WB
Dairy

If dairy cattle are fed rations containing aflatoxin or other mycotoxins, contamination may appear in the cow’s milk, rendering it unsafe for human consumption. Global regulatory limits for aflatoxin in milk and other dairy products are as low as 0.05 parts per billion, with even lower limits for food intended for children. VICAM offers rapid, accurate test kits that deliver precise data to ensure dairy products are safe to consume.

Dairy Mycotoxin Testing Solutions

- AflaTest
- Afla M₁ FL®
- Afla M₁™ HPLC
- Afla M₁™-V
- Afla-V

www.vicam.com/dairy
DDGs/Ethanol

Ethanol co-products such as dried distillers’ grains (DDG), distillers grains with soluble (DDGS), wet distillers grains (WDGS) and heavy steep water (HSW) are valuable nutrition sources for livestock producers. However, if inbound corn contains aflatoxin, fumonisin or other mycotoxins prior to processing, the final co-products streams will contain concentrated levels of mycotoxins. Rapid, on-site mycotoxin monitoring tools from VICAM help protect the value of ethanol co-products, ensuring safety and marketability.

DDGs/Ethanol Mycotoxin Testing Solutions

- AflaTest
- AflaTest WB
- Afla-V
- DONtest HPLC
- DONtest™ WB
- DON-V
- FumoniTest
- FumoniTest WB
- Fumo-V
Dried Fruit

Dried fruit is at risk for mycotoxins such as aflatoxin and ochratoxin A which may be present in the fresh fruit counterpart prior to drying. EU countries enforce maximum allowable limits for dried fruits at levels as low as 5 parts per billion (ppb) for aflatoxin B₁ and 10 ppb for ochratoxin A. VICAM’s complete family of AOAC and USDA approved methods ensure rapid, actionable data to support dried fruit exports worldwide.

Dried Fruit Mycotoxin Testing Solutions

- AflaOchra HPLC
- AflaTest
- AflaTest WB
- OchraTest
- OchraTest WB
Feed and Grain

Corn, wheat, rice, barley and grain crops are acutely vulnerable to mycotoxins, a family of microcontaminants that pose a threat to quality, safety, and profitability of grain-based products. As regulatory agencies intensify scrutiny of domestic and imported grain commodities for unsafe levels of mycotoxins, farmers, processors, and storage facilities rely on frequent testing at every phase of production. VICAM offers a comprehensive line of GIPSA and AOAC-approved mycotoxin testing solutions for feed and grain.

Feed and Grain Mycotoxin Testing Solutions

- AflaOchra HPLC
- AOZ HPLC
- AflaTest
- AflaTest WB
- Afla-V
- Afla-V AQUA™
- AflaCheck
- DONtest HPLC
- DONtest WB
- DON-V
- DONCheck
- FumoniTest
- FumoniTest WB
- Fumo-V
- Myco6in1⁺
- OchraTest
- OchraTest WB
- Ochra-V
- T-2test™ HPLC
- T-2/HT-2™ HPLC
- ZearalaTest™
- ZearalaTest™ WB
Peanuts

Peanut contact with soil during cultivation may result in exposure to mycotoxin-producing molds. Aflatoxin is classified as a Group I carcinogen by the International Agency for Research on Cancer (IARC) and is regulated in 60+ countries at levels as low as 2 parts per billion (ppb) for aflatoxin B₁ and 4 ppb for total aflatoxins. Ensure the safety and marketability of peanut products with VICAM’s complete array of AOAC and USDA approved methods for on-site or laboratory detection.

Peanuts Mycotoxin Testing Solutions

- AflaTest
- AflaTest WB
- Afla-V

www.vicam.com/peanuts
Pet Food

Mycotoxins, the toxic chemical byproducts of naturally occurring molds, are among the most common risks for pet food companies today. The US FDA recommendation for pet foods indicates maximum levels for aflatoxin at less than 20 ppb and less than 5 parts per million (ppm) for deoxynivalenol (DON). VICAM’s AOAC and USDA-GIPSA approved diagnostic kits provide the most comprehensive and effective tools for mycotoxin monitoring and prevention in pet food.

Pet Food Mycotoxin Testing Solutions

- AflaOchra HPLC
- AOZ HPLC
- AflaTest
- AflaTest WB
- Afla-V
- DONtest
- DONtest WB
- DON-V
- FumoniTest
- FumoniTest WB
- Fumo-V
- Myco6in1+
- OchraTest
- OchraTest WB
- T-2test HPLC
- T2/HT-2 HPLC
- ZearalaTest
- ZearalaTest WB
Like other field crops, rice is vulnerable to the presence of mycotoxins when specific mold species appear during growth, harvest, storage or processing. Aflatoxin B₁ is highly toxic—even at very low concentrations—resulting in regulatory limits in most importing countries as low as 2 parts per billion (ppb). VICAM offers comprehensive screening and detection solutions to ensure a safe, marketable rice supply worldwide.

Rice Mycotoxin Testing Solutions

- AflaOchra HPLC
- AflaTest
- AflaTest WB
- Afla-V
- CitriTest
- DONtest
- FumoniTest
- OchraTest
- OchraTest WB

www.vicam.com/rice
Spices

Despite good cultivation practices, spices may be at risk for mycotoxins when environmental conditions encourage mold growth. Aflatoxin and ochratoxin are the most common to affect spice products. Global legislation places maximum allowable limits on domestic and imported food products for levels as low as 2 parts per billion (ppb) in spices. VICAM’s fast, effective detection solutions deliver AOAC and USDA approved results to help ensure market ready spice products.

Spices Mycotoxin Testing Solutions

- AflaOchra HPLC
- AflaTest
- AflaTest WB
- OchraTest
- OchraTest WB
Tree Nuts

Tree nuts are at risk for the presence of mycotoxins throughout cultivation and storage when environmental conditions favor mold growth. Global regulatory limits in more than 60 countries establish maximum allowable levels of aflatoxin in tree nuts—as low as 2 parts per billion (ppb) for aflatoxin B₁. VICAM offers rapid, accurate diagnostic test kits for aflatoxin screening and quantitation that meet internal quality requirements and strict global regulations for tree nuts.

Tree Nuts Mycotoxin Testing Solutions

- AflaOchra HPLC
- AflaTest
- Afla-V
- AflaCheck
- AflaTest WB
- AflaTest WB SR

www.vicam.com/treenuts
Wheat

Wheat and other cereal grains are at risk for the presence of mycotoxins such as aflatoxin, vomitoxin (DON), fumonisin, zearalenone and ochratoxin. Flour millers, bakeries and import/export regulations set limits for maximum allowable levels as low as 4 parts per billion for aflatoxin, 3 ppb for ochratoxin A, 75 ppb for zearalenone, 500 ppb for deoxynivalenol (DON) and 1,750 ppb for fumonisin. VICAM offers a complete family of screening and quantitative solutions for on-site and laboratory detection of mycotoxins in wheat.

Wheat Mycotoxin Testing Solutions

- AflaOchra HPLC
- AflaTest
- AflaTest WB
- Afla-V
- DONtest

- DONtest WB
- DON-V
- OchraTest
- OchraTest WB
- Ochra-V
[ TECHNOLOGIES ]
HPLC/UPLC and LC-MS

Optimized sample cleanup and precise, reproducible results remain the core strength of our HPLC line. VICAM’s wide-bore (faster-flow) immunoaffinity columns ensure the increased sample throughput and top-notch HPLC performance you need to boost productivity in today’s stringent regulatory environment. VICAM’s columns enable labs to analyze parts per billion (ppb) levels of several simultaneously occurring mycotoxins in a single HPLC or UPLC® run.

HPLC/UPLC and LC-MS Mycotoxin Testing Solutions

- Afla B™
- Afla M₁ HPLC
- Afla Ochra HPLC
- AflaTest
- AflaTest WB
- AflaTest® WB SR
- AOZ HPLC
- CitriTest HPLC
- DONtest HPLC
- DONtest WB
- DON-NIV™ WB
- FumoniTest
- FumoniTest WB
- Myco6in1⁺
- OchraTest
- OchraTest WB
- T-2Test HPLC
- T-2/HT-2 HPLC
- ZearalaTest
- ZearalaTest WB
Fluorometer

The VICAM Series-4EX Fluorometer accurately measures down to extremely low ppt concentrations of mycotoxins in samples prepared using VICAM immunoaffinity columns. Expanded data storage capacity allows for storage of all the VICAM mycotoxin test protocols and calibration levels, as well as up to 200 test results. Stored testing protocols provide for a digital readout in ppm, ppb, ppt, mg/kg, μg/kg, or ng/kg concentration units without requiring conversion.

Series-4EX Fluorometer Mycotoxin Testing Solutions

- Afla B
- AflaTest
- Afla M₁ FL⁺
- FumoniTest
- OchraTest
- ZearalaTest
VICAM’s Vertu® Lateral Flow Reader provides fast, easy and quantitative mycotoxin screening. The Vertu reader provides more accessible mycotoxin testing to food and agriculture producers worldwide who rely on early detection to protect humans and animals from potentially lethal effects of contamination. Digital readings are clearly displayed on the screen of the Vertu Lateral Flow Reader, eliminating any guesswork about the results. The Vertu Lateral Flow Reader is used in conjunction with VICAM Quantitative Test Strips.

Vertu Lateral Flow Reader Mycotoxin Testing Solutions

- Afla M₁-V
- Afla-V
- Afla-V AQUA
- DON-V
- Fumo-V
- Ochra-V
Quantitative Strip Tests

VICAM’s portfolio of quantitative strip tests, which are used in conjunction with the VICAM Vertu Lateral Flow Reader, provide validated monitoring solutions for companies seeking to minimize the costly consequences of mycotoxin contamination. Utilizing the proven sensitivity and selectivity of VICAM’s monoclonal antibodies, quantitative strip tests can accurately detect and measure a variety of mycotoxins in less than 5 minutes*. The tests can be easily performed on-site or in the lab, require no special training and have a long shelf life. Regulatory compliance and risk management decisions demand proven solutions to provide accurate, precise results—screen, quantify, and confirm mycotoxin levels with total confidence.

Quantitative Strip Test Mycotoxin Testing Solutions

- Afla M₁-V
- Afla-V
- Afla-V AQUA
- DON-V
- Fumo-V
- Ochra-V

*after extraction
Qualitative Strip Tests

Regulatory compliance and risk management decisions demand proven solutions. VICAM’s portfolio of AOAC- and USDA/GIPSA-approved tests provides validated monitoring solutions for companies seeking to minimize the costly consequences of mycotoxin contamination. Built upon the highly specific reactions between antibodies and target contaminant, VICAM’s Qualitative Strip Tests for aflatoxins and deoxynivalenol (DON) deliver fast, accurate, on-the-spot results in as little as 3 minutes. This inexpensive testing protocol can be used with a variety of samples and requires no special training or equipment.

Qualitative Strip Test Mycotoxin Testing Solutions

- AflaCheck®
- DONCheck™
[ PRODUCTS ]

Aflatoxin Testing Solutions
AflaTest is a quantitative method for the detection of aflatoxin in many commodities. VICAM’s advanced biotechnology permits the measurement of aflatoxins (including AFB1, AFB2, AFG1, AFG2 and AFM1). The AflaTest mycotoxin testing system can be used in a wide variety of locations from the local farm elevator to food processing quality control laboratories to government testing laboratories.

**Benefits**

- **Convenient** – For use with fluorometer or HPLC
- **Comprehensive** – Total readings for all aflatoxins
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – For use with a variety of samples
- **Quick** – Less than 10 minutes to isolate toxin
- **Wide Range** – Detects levels as high as 1000 ppb and as low as 0.1 ppb
- **Safe** – Requires less toxic materials than other methods

*excluding preparation and extraction
**1 ppb for grain and nuts

**Applications**

- Botanicals
- Corn
- Dairy
- DDGs/Ethanol
- Dried Fruit
- Feed and Grain
- Peanuts
- Pet Food
- Rice
- Spices
- Tree Nuts
- Wheat
AflaTest WB is an HPLC-only test for the detection of aflatoxins B₁, B₂, G₁, G₂ and M₁ using wide bore immunoaffinity columns. With a total volume of 3 mL, AflaTest WB allows for a faster flow rate preferred by many laboratories and is the ideal cleanup step for any HPLC. AflaTest WB can be used in a wide variety of locations from the farm elevator to food QC and safety laboratories.

Benefits

- **Exclusive** – Specifically for HPLC use
- **Comprehensive** – Total readings for all aflatoxins
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – For use with a variety of samples
- **Quick** – 15 minutes to isolate toxin*
- **Wide Range** – Detects levels as high as 100 ppb and as low as 0.03 ppb for aflatoxin B₁
- **Fast Flow** – Passes more volume over the column

*excluding preparation and extraction

Applications

- Botanicals
- Corn
- DDGs/Ethanol
- Dried Fruit
- Feed and Grain
- Peanuts
- Pet Food
- Rice
- Spices
- Tree Nuts
- Wheat

Ordering Information:
Cat. No. G1024
AflaTest WB SR is a quantitative method that uses immunoaffinity chromatography to selectively isolate aflatoxins B$_1$, B$_2$, G$_1$, G$_2$ and M$_1$ for HPLC analysis. The SR test kit’s fast-flow widebore columns are specially designed to maximize aflatoxin G$_2$ recovery and accelerate sample throughput. AflaTest WB SR can be used in a wide variety of locations from the farm elevator to food QC and safety laboratories.

Benefits

- **Powerful** – Designed exclusively for laboratory use
- **Enhanced Recovery** – Improved aflatoxin G$_2$ recovery
- **Comprehensive** – Determines individual aflatoxin levels (B$_1$, B$_2$, G$_1$, G$_2$, and M$_1$)
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – For use with a variety of samples
- **Quick** – 15 minutes to isolate toxin*
- **Wide Range** – Detects total aflatoxin levels as high as 500 ng and as low 0.005 ng for total aflatoxin
- **Fast Flow** – Passes more volume over the column

Applications

- Almonds
- Feed and Grain
- Pet Food
- Tree Nuts

*excluding preparation and extraction
Using monoclonal antibody-based affinity chromatography, Afla B is a quantitative method that can isolate aflatoxins B₁ and B₂ from feeds, food, grains, and nuts via fluorometric or HPLC detection. Afla B is sensitive, simple, and fast, enabling quick tests for parts per billion or parts per trillion levels. Afla B can be used in a wide variety of locations from the local farm elevator to food QC and safety laboratories.

Benefits

- **Convenient** – For use with fluorometer or HPLC
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – For use with a variety of samples
- **Quick** – Less than 10 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 1 ppb (fluorometer) and 50 ppt (HPLC) and as high as 300 ppb
- **Safe** – Requires less toxic materials than other methods

*excluding preparation and extraction

Applications

- Corn

Ordering Information:

Cat. No. G1003
Aflatoxin levels in grain, food and feed are subject to strict regulations in more than 60 countries. AflaCheck is a qualitative one-step test kit for the detection of aflatoxin. AflaCheck uses highly specific reactions between antibodies and aflatoxin to detect aflatoxin in a variety of samples. The test strips can be used to detect the presence of aflatoxin at two different cutoff levels depending on the protocol followed.

**Benefits**

- **Fast** – Results in as little as 3 minutes*
- **Simple** – No special training or equipment required
- **Accurate** – Detects the presence of aflatoxin at levels of 10 ppb or 20 ppb
- **Convenient** – Can be performed anywhere with a variety of samples
- **Durable** – Long shelf life, no refrigeration required
- **Economical** – Inexpensive first step in your testing protocol
- **Versatile** – Choice of two cut off procedures: 10 ppb and 20 ppb

*excluding preparation and extraction

**Applications**

- Corn
- Feed and Grain
- Peanuts
- Rice
- Tree Nuts
Strict global regulatory limits govern how much aflatoxin M₁ may be present in dairy products. Using monoclonal antibody-based affinity chromatography, Afla M₁ FL⁺ is a quantitative method for the fluorometer based detection of aflatoxin M₁ in milk at parts per trillion (ppt) levels. Afla M₁ FL⁺ can be performed rapidly, requires no special skills and is useful for both the milk processing QC and government testing laboratory.

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

Applications

- Dairy

Ordering Information:

Cat. No. G1047
Strict global regulatory limits govern how much aflatoxin M₁ may be present in dairy products. Using monoclonal antibody based affinity chromatography, Afla M₁ HPLC is an HPLC only test for the detection of aflatoxin M₁ using immunoaffinity columns. An ideal cleanup step for any HPLC, Afla M₁ HPLC delivers the results dairies need using a fast-flow column that delivers 75% to 95% recovery depending on the sample.

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

Applications

- Dairy

Ordering Information:

Cat. No. G1007
Afla-V strip tests 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 2 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 guesswork about the results.

Benefits

- **Fast Screening** – Results in 5 minutes*
- **Simple** – No special training required
- **Sensitive** – Limits of detection as low as 2 ppb**
- **Convenient** – Easily performed on-site or in the lab
- **Durable** – Long shelf life
- **Accurate** – Real-time data which can be printed or downloaded to a computer
- **Wide Range** – 0 to 100 ppb
- **Certified** – USDA-GIPSA certified method available

*after extraction  
**limits of detection will vary based on procedure

Applications

- Corn
- Dairy
- Peanuts
- Rice
- Wheat
Afla-V AQUA Strip Tests 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 2.5 ppb and as high as 50 ppb. Afla-V AQUA eliminates the need for hazardous solvents using a water-based, dilution-free extraction procedure that develops in just 5 minutes.* Results are displayed on the digital screen and may also be printed or transferred to Excel for storage and used as a vital quality assurance tool.

Benefits

- **Sustainable** – Safe, solvent-free testing
- **Fast Screening** – Results in 5 minutes*
- **Simple** – No special training required
- **Sensitive** – Limits of detection as low as 2.5 ppb**
- **Convenient** – Easily performed on-site or in the lab
- **Durable** – Long shelf life
- **Accurate** – Real-time data which can be printed or downloaded to a computer
- **Wide Range** – 0 to 50 ppb

*after extraction

**limits of detection will vary based on procedure

Applications

- Corn
- Peanuts

Ordering Information:
Cat. No. 176003520
Aflatoxin M$_1$ is the metabolic byproduct created when a cow ingests feed that contains aflatoxin B$_1$. Aflatoxin M$_1$ is a Group 2B (probable) carcinogen according to the International Agency for Research on Cancer (IARC). VICAM’s Afla M$_1$-V quantitative strip tests answer one of today’s toughest food safety challenges with a new, user-friendly lateral flow strip test for aflatoxin M$_1$ in dairy products—providing precise results in just minutes.

**Benefits**

- **Fast Screening** – Results in 12 minutes*
- **Simple** – No special training required
- **Sensitive** – Limit of detection as low as 25 ppt
- **Convenient** – Easily performed on-site or in the laboratory
- **Durable** – Long shelf life
- **Accurate** – Real-time data which can be printed or transferred to a spreadsheet

*after extraction

**Applications**

- Dairy

Ordering Information:
Cat. No. 176003404
[ PRODUCTS ]
Citrinin Testing Solutions
CitriTest HPLC is a quantitative method for detection of citrinin in Kogi Red Rice and corn that uses monoclonal antibody-based affinity chromatography. An ideal cleanup step for any HPLC, CitriTest HPLC provides precise numerical results in parts per billion 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
- **Convenient** – Uses same methods as other VICAM tests
- **Durable** – Long shelf life
- **Quick** – 20 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 10 ppb and as high as 500 ppb

*excluding preparation and extraction

Applications

- Corn
- Rice

Ordering Information:
Cat. No. G1070
[ PRODUCTS ]
Deoxynivalenol Testing Solutions
DONCheck is a simple qualitative test for the detection of the trichothecene mycotoxin deoxynivalenol (DON) in grain samples. Many nations have adopted guidance or maximum allowable levels for DON to control its spread. DONCheck Test Strips provide fast, accurate, on-the-spot results with no special training or expensive equipment required. DONCheck is easy to use in the field or in the lab. Simply dip the Test Strip into the sample and read the results.

Benefits

- **Fast** – Results in as little as 3 minutes*
- **Simple** – No special training or equipment required
- **Accurate** – Detects the presence of DON at 1 ppm
- **Convenient** – Can be performed anywhere
- **Durable** – Long shelf life
- **Economical** – Inexpensive first step in your testing protocol
- **Versatile** – Works with a variety of samples

*excluding preparation and extraction

Applications

- Barley
- Corn
- Wheat

Ordering Information:
Cat. No. 100000198

www.vicam.com/don-test-kits/doncheck
DONtest™ HPLC
MYCOTOXIN TESTING SYSTEM

DONtest HPLC is a quantitative method for customers in the food processing industry who need to test samples for the presence of DON (also known as deoxynivalenol or vomitoxin) in parts per million (ppm) levels. DONtest HPLC uses monoclonal antibody-based affinity chromatography to provide a solution that is safe, simple, fast and works reproducibly and accurately.

Benefits

- **Exclusive** – Specifically for HPLC use
- **Quick** – 10 minutes to isolate toxin*
- **Durable** – Long shelf life
- **Versatile** – Can be used with a variety of samples
- **Wide Range** – Detects levels as low as 0.10 ppm and as high as 5 ppm
- **Safe** – Requires less toxic materials than other methods

*excluding preparation and extraction

Applications

- Wheat

Ordering Information:
Cat. No. G1005

www.vicam.com/don-test-kits/dontest-hplc
Deoxynivalenol or DON (also known as vomitoxin) has been isolated from grains and feeds throughout the world at levels as high as 92 ppm. DONtest WB is an HPLC test for the detection of DON at parts per million (ppm) levels using wide bore immunoaffinity columns—the method is simple, accurate and reproducible. With a total volume of 3 mL, DONtest WB allows for a faster flow rate and is the ideal cleanup step for any HPLC.

Benefits

- **Exclusive** – Specifically for HPLC and UPLC use
- **Durable** – Long shelf life
- **Versatile** – For use with a variety of samples
- **Quick** – 10 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 0.04 ppm and as high as 5 ppm
- **Fast Flow** – Faster results than narrow bore test

*excluding preparation and extraction

Applications

- Wheat

Ordering Information:

Cat. No. G1065
DON-V strip tests utilize the proven sensitivity and selectivity of VICAM’s monoclonal antibodies to accurately detect and measure total DON in grain and feed at levels as low as 0.20 ppm. The single-dilution sample preparation procedure saves time and materials, and the test takes less than 5 minutes* to complete. Digital readings are clearly displayed on the screen of the Vertu Lateral Flow Reader, eliminating any guesswork about the results.

Benefits

- **Fast Screening** – Results in less than 5 minutes*
- **Simple** – No special training required
- **Sensitive** – Limits of detection as low as 0.20 ppm
- **Convenient** – Easily performed on-site or in the lab
- **Durable** – Long shelf life
- **Accurate** – Real-time data which can be printed or downloaded to a computer
- **Wide Range** – 0 to 10 ppm

*after extraction

**Ordering Information:**
Cat. No. 176002072

www.vicam.com/don-test-kits/don-v
[ PRODUCTS ]
Fumonisin Testing Solutions
FumoniTest is a quantitative method for the detection of fumonisin B₁, B₂ and B₃ in a variety of commodities by fluorometer or HPLC. FumoniTest can be used in diverse locations, from the farm elevator to food processing quality control laboratories to government testing laboratories. FumoniTest is safe, fast, requires no special skills and produces precise results at parts per million levels.

**Benefits**

- **Convenient** – For use with fluorometer or HPLC
- **Comprehensive** – Tests for fumonisins B₁, B₂, and B₃
- **Durable** – Has a long shelf life
- **Versatile** – For use with a variety of samples
- **Quick** – Less than 15 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 0.016 ppm and as high as 5 ppm

*excluding preparation and extraction

**Applications**

- Barley
- Beer
- Corn
- Corn Meal
- Corn/Soy Blend
- Milo
- Milo/Sorghum
- Popcorn
- Poultry Feed

Ordering Information:
Cat. No. G1008

www.vicam.com/fumonisin-test-kits/fumonitest
FumoniTest™ WB
Mycotoxin Testing System

FumoniTest WB is a quantitative HPLC method that uses wide bore immunoaffinity columns for the detection of fumonisin mycotoxins B₁, B₂, and B₃ in a variety of commodities. With a total volume of 3 mL, FumoniTest WB allows for a faster flow rate preferred by many laboratories and is the ideal cleanup step for any HPLC.

Benefits
- **Exclusive** – Specifically for HPLC use
- **Comprehensive** – Total readings for fumonisins B₁, B₂, and B₃
- **Durable** – Long shelf life
- **Versatile** – For use with a variety of samples
- **Quick** – 15 minutes to isolate toxin*
- **Wide Range** – Detects levels as high as 10 ppm
- **Fast Flow** – Passes more volume over the column

*excluding preparation and extraction

Applications
- Corn
- DDGs/Ethanol

Ordering Information:
Cat. No. G1065

www.vicam.com/fumonisin-test-kits/fumonitest-wb
Fumo-V test strips use the proven sensitivity and selectivity of VICAM’s monoclonal antibodies to accurately detect and measure total fumonisin B₁, B₂, and B₃ at levels as low as 0.2 ppm and as high as 5 ppm. The single dilution sample preparation procedure saves time and materials, and the test strip develops in just 5 minutes.* Digital results are displayed on the Vertu Lateral Flow reader, eliminating the need for subjective visual interpretation.

**Benefits**

- **Fast Screening** – Results in 5 minutes*
- **Simple** – No special training required
- **Sensitive** – Limits of detection as low as 0.2 ppm
- **Convenient** – Easily performed on-site or in the laboratory
- **Durable** – Long shelf life
- **Accurate** – Real-time data which can be printed or transferred to a spreadsheet
- **Wide Range** – 0 to 5 ppm

*after extraction

**Applications**

- Corn
- Wheat
[ PRODUCTS ]

Ochratoxin Testing Solutions
OchraTest is a quantitative method for the detection of ochratoxin A in a variety of commodities using a fluorometer or HPLC. The test requires no special skills and is rugged enough for field or laboratory use. Designed for room temperature storage, OchraTest is safe, sensitive and fast—enabling detection at parts per billion levels in just minutes.

Benefits

- **Convenient** – For use with fluorometer or HPLC
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – Can be used with a variety of samples
- **Quick** – Less than 10 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 0.10 ppb and as high as 100 ppb
- **Easy** – No special skills required, test can be performed virtually anywhere
- **Safe** – Requires less toxic materials than other methods

*excluding preparation and extraction

Applications

- Barley
- Beer
- Coffee
- Corn Meal
- Corn/Soy Blend
- Dried Fruit
- Green Coffee
- Poultry Feed
- Popcorn
- Roasted Coffee
- Soluble Coffee
- Spices
- Wheat
- Wine

Ordering Information:

Cat. No. 13012

www.vicam.com/ochratoxin-test-kits/ochratest
OchraTest WB is a quantitative method for the detection of ochratoxin A with fluorometer, LC and LC-MS/MS in a variety of commodities. Using wide bore immunoaffinity columns with a total volume of 3 mL, compared to 1 mL in VICAM’s standard columns, OchraTest WB allows for a faster flow rate preferred by many laboratories and is the ideal cleanup step for any HPLC.

Benefits

- **Exclusive** – Specifically for HPLC, UPLC or LC-MS/MS use
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – For use with a variety of samples
- **Quick** – 10 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 0.25 ppb and as high as 100 ppb
- **Fast Flow** – Passes more volume over the column

Applications

- Coffee
- Corn
- Licorice
- Spice
- Wheat

*excluding preparation and extraction
Ochra-V test strips use the proven sensitivity and selectivity of VICAM’s monoclonal antibodies to accurately detect and quantify ochratoxin A in wheat and coffee samples at levels as low as 2.5 ppb. The single dilution sample preparation procedure saves time and materials, and the test takes 7 minutes* to develop. Digital readings are clearly displayed on the screen of the Vertu Lateral Flow Reader, eliminating any guesswork about the results.

**Benefits**

- **Convenient** – For use with fluorometer or HPLC
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – Can be used with a variety of samples
- **Quick** – Less than 10 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 0.10 ppb and as high as 100 ppb
- **Easy** – No special skills required, test can be performed virtually anywhere
- **Safe** – Requires less toxic materials than other methods

*excluding preparation and extraction

**Applications**

- Coffee
- Corn
- Wheat
[ PRODUCTS ]

T-2 Testing Solutions
Using monoclonal antibody-based affinity chromatography, T-2test HPLC is a HPLC-only test for the detection of T-2 mycotoxin for customers in the food processing industry. An ideal cleanup step for any HPLC, T-2test HPLC is simple, reliable and provides precise numerical results in parts per million levels—the preferred test of laboratories around the world for speed, quantification, and specificity.

Benefits

- **Exclusive** – Specifically for HPLC use
- **Convenient** – Uses same methods as other VICAM tests
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – Can be used with a variety of samples
- **Wide Range** – Detects levels as low as 5 ppb and as high as 1500 ppb
- **Safe** – Requires less toxic materials than other methods

Applications

- Barley
- Corn
- Milo/Sorghum
- Oats
- Rice
- Wheat

Ordering Information:
Cat. No. G1028
Zearalenone Testing Solutions
ZearalaTest is a monoclonal antibody-based affinity chromatography method for the detection of zearalenone mycotoxin at parts per million levels. Quantitative results can be obtained using a fluorometer, LC or TLC. ZearalaTest provides grain and feed processors the sensitivity, simplicity, and speed they require to generate precise, on-time data.

**Benefits**
- **Convenient** – For use with fluorometer or HPLC
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – For use with a variety of samples
- **Quick** – Less than 15 minutes to isolate toxin*
- **Wide Range** – Detects levels as low as 0.1 ppm (fluorometer) and as high as 10 ppb (HPLC)
- **Safe** – Requires less toxic materials than conventional methods

*excluding preparation and extraction

**Applications**
- Corn
- DDG
- Milo
- Poultry Feed

Ordering Information:
Cat. No. G1012

www.vicam.com/zearalanone-test-kits/zearalatest
ZearalaTest WB is designed for the rapid, precise detection of zearalenone using wide bore immunoaffinity columns. With 3 mL wide bore construction, ZearalaTest WB allows for a faster flow rate and is the ideal cleanup step for any LC or LC-MS/MS analysis.

Benefits

- **Exclusive** – Specifically for HPLC use
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – For use with a variety of samples
- **Quick** – 20 minutes to isolate toxin*
- **Wide Range** – Detects levels as high as 1500 ng
- **Fast Flow** – Passes more volume over the column
- **Limit of Detection** – 1.9 μg/kg

*excluding preparation and extraction

Ordering Information:
Cat. No. G1012
[ PRODUCTS ]
Multi-Analyte Testing Solutions
AflaOchra HPLC is the only test that employs a single column to produce precise numerical results for both ochratoxin A and the aflatoxins B₁, B₂, G₁, and G₂ in a variety of commodities. AflaOchra HPLC is safe and simple. It can be performed in less than 30 minutes (excluding sample preparations and extraction) and requires only basic HPLC skills.

Benefits

- **Exclusive** – For HPLC, UPLC and LC-MS/MS use
- **Comprehensive** – Detects aflatoxins B₁, B₂, G₁, and G₂ and ochratoxin A
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – Can be used with a variety of samples
- **Quick** – Less than 30 minutes to isolate toxins*
- **Wide Range** – Measures levels as low as 0.25 ppb and as high as 100 ppb
- **Safe** – Requires less toxic materials than other methods

*excluding preparation and extraction

Applications

- Botanicals
- Coffee
- Spices
- Wheat

Ordering Information:
Cat. No. G1017

www.vicam.com/aflatoxin-test-kits/aflaochra-hplc
AOZ HPLC is a quantitative method for the simultaneous detection of aflatoxin, ochratoxin A (OTA) and zearalenone (ZEA) in several commodities. AOZ HPLC immunoaffinity columns simultaneously isolate aflatoxins B1, B2, G1, G2; OTA; and ZEA. Using LC or LC-MS/MS for detection, this test produces precise numerical results in micrograms per kilogram (μg/kg) or parts per billion (ppb).

Benefits

- **Exclusive** – Specifically for HPLC use
- **Convenient** – Uses same methods as other VICAM tests
- **Comprehensive** – Detects aflatoxins B1, B2, G1, G2; ochratoxin A (OTA); and zearalenone (ZEA)
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – Can be used with a variety of samples
- **Wide Range** – Detects aflatoxin levels from 0.1 to 100 μg/kg; 0.25 to 100 μg/kg for OTA; and 5.0 to 1,000 μg/kg for ZEA

Applications

- Barley
- Corn
- Rice

Ordering Information:

Cat. No. G1033

www.vicam.com/aflatoxin-test-kits/aoz-hplc
Monoclonal antibodies enable the DON-NIV WB immunoaffinity column to isolate DON and NIV simultaneously from a single sample extract. Its 3 mL, wide-bore construction delivers flow-through speed to this powerful sample preparation column. Coupled with LC for detection, DON-NIV WB doubles the productivity of traditional laboratory analysis for DON and NIV.

Benefits

- **High Recovery** – Over 90% for deoxynivalenol and nivalenol*
- **Exclusive** – Primarily for HPLC or UPLC use
- **Convenient** – Total readings for deoxynivalenol and nivalenol
- **Durable** – Long shelf life
- **Versatility** – For use with wheat and other commodities
- **Quick** – 15 minutes to isolate toxins**
- **Simple** – Easy-to-use procedure

*using procedure developed by VICAM
**excluding preparation and extraction

Applications

- Wheat

Ordering Information:
Cat. No. 176002933

www.vicam.com/don-test-kits/don-niv-wb
Myco6in1+ columns for LC-MS/MS is a quantitative method that delivers fast, accurate and simultaneous determination of aflatoxins, ochratoxin A, fumonisins, deoxynivalenol, zearalenone, nivalenol, T-2 and HT-2 toxins. Samples are purified by the Myco6in1+ LC-MS/MS immunoaffinity column before being quantitated by LC or LC-MS/MS.

**Benefits**

- **Exclusive** – For use with LC-MS/MS, HPLC with PDA, fluorescence detector and post-column derivatization or UPLC with ACQUITY® QDa® Mass Detector
- **Accurate** – Meets European Committee for Standardization (CEN) criteria for mycotoxin analysis methods
- **Comprehensive** – Detects aflatoxins, deoxynivalenol and nivalenol, fumonisins, ochratoxin A, zearalenone and T-2 and HT-2 toxins with one simple test
- **Convenient** – One sample, one pass through the column to detect multiple mycotoxins
- **Durable** – Long shelf life
- **Economical** – One test provides results for multiple toxins, saving time and materials

**Applications**

- Corn (Maize)
- Corn Flakes
- Maize Crackers
- Wheat

**Ordering Information:**

Cat. No. 100000176

www.vicam.com/multi-analyte-test-kits/myco6in1
The T-2/HT-2 HPLC test combines VICAM’s proven immunoassay technology with HPLC to detect and measure both T-2 and HT-2 toxins. T-2/HT-2 HPLC streamlines sample cleanup and when used in conjunction with UV detection provides precise readings at ng levels. This simple, sensitive, and reliable HPLC-only test has a long shelf life and can be used with a variety of samples.

Benefits

- **Exclusive** – Specifically for HPLC use
- **Powerful** – Designed exclusively for HPLC use
- **Convenient** – Uses same methods as other VICAM tests
- **Durable** – Long shelf life; requires no refrigeration
- **Versatile** – Can be used with a variety of samples
- **Wide Range** – Reliable readings of contamination levels ranging from 100* ng to 1,000 ng
- **Safe** – Requires less toxic materials than other methods

Applications

- Barley
- Corn
- Oats
- Rice
- Wheat

*lower limits may be achieved with other methods of detection

Ordering Information:
Cat. No. 176000207
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