



HERE'S HOW SIMPLE VICAM TESTS ARE TO USE:

EXTRACT SAMPLE

- Grind and weigh sample
- Add salt and methanol/
water mixture
- Filter

DILUTE AND FILTER

- Dilute extract
- Filter

ABSORB AND ELUTE

- Pass filtrate over selected
affinity column
- Wash column
- Elute toxin and collect in a cuvette

MEASURE

- Add developers and place cuvette
into a calibrated fluorometer, or
- Dilute and inject eluate into
HPLC or UPLC
- Determine toxin concentration

Keeping the Spice Trade Healthy

Spices produce the rich flavors which define cultures and culinary traditions around the world. Each spice is carefully cultivated, harvested and packaged to maintain the highest purity and quality for food manufacturers and consumers alike. The tropical climate which enables spice production also, unfortunately, may encourage the growth of various mold species which are capable of producing mycotoxins. Highly toxic even at low concentrations, mycotoxins such as aflatoxin and ochratoxin A are responsible for serious health risks such as kidney and liver disease, immune suppression and even cancer. Aflatoxin and ochratoxin A are regulated through maximum allowable levels worldwide which impact the spice industry through ongoing testing of outbound products and screening at point of arrival in importing countries.

Let VICAM's complete family of mycotoxin testing solutions assist you in confirming the purity and quality of your products prior to shipping or at point of delivery. A choice of on-site fluorometric detection or analysis by HPLC, UPLC or LC/MS/MS are facilitated using single or multiple mycotoxin analysis tools from VICAM. Allow VICAM's expert technical assistance and family of complete mycotoxin solutions to assist you in meeting the demands of a complex global market while strengthening your brand's position at the same time.

- **Industry-Leading Rapid Methods: Lab-Quality Screening in Minutes**
- **Precise HPLC, UPLC and Fluorometric Detection for Rapid Numerical Results**

VICAM NARROW BORE COLUMNS



BENEFITS		AflaTest	OchraTest
Durable	Long shelf life; requires no refrigeration	X	X
Versatile	Can be used with a variety of samples	X	X
Convenient	For use with fluorometric or HPLC	X	
Easy	No special skills required, test can be performed virtually anywhere	X	
Quick	Less than 10 minutes to isolate toxin	X	
Safe	Requires less toxic materials than other methods	X	X

VICAM WIDE BORE COLUMNS



BENEFITS		AflaTest WB	OchraTest WB
Durable	Long shelf life; requires no refrigeration	X	X
Versatile	Can be used with a variety of samples	X	X
Exclusive	Specifically for HPLC, UPLC or LC/MS/MS use	X	X
Quick	10 minutes to isolate toxin	X	X
Wide Range	Detects levels as high as 500 ppb	X	X
Fast Flow	Passes more volume over the column	X	X

VICAM MULTI-ANALYTE COLUMNS



BENEFITS		AflaOchra HPLC
Convenient	Only one sample and one procedure required to detect multiple toxins	X
Durable	Long shelf life	X
Economical	One test provides results for multiple toxins, saving time and materials	X
Wide Range	Detects levels as high as 100 ppb for OTA and aflatoxin	X
Fast Flow	Passes more volume over the column	X
Exclusive	Specifically for HPLC use	X

Subject to change without notice.

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