



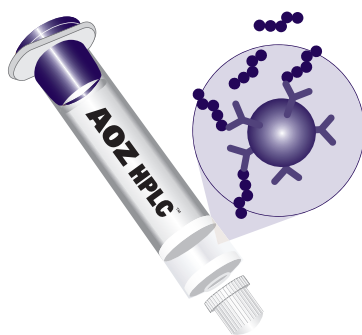
## Precise Numerical Results

Aflatoxin, ochratoxin A (OTA), and zearalenone (ZEA) are toxins produced by naturally occurring molds and fungi. Aflatoxin is a Group 1 carcinogen proven to cause cancer in humans, while OTA and ZEA are suspected to cause disease in humans and animals.

The European Union limits aflatoxin B<sub>1</sub> to as low as 2 µg/kg, OTA to as low as 3 µg/kg and ZEA to as low as 50 µg/kg, and has even lower levels for foods specifically intended for infants and young children. OTA, a suspected carcinogen, causes kidney damage in humans, as well as livestock. Exposure to ZEA can cause reproductive problems including interference with conception, ovulation, and implantation in some animals, bringing this mycotoxin under increased scrutiny. Determination of aflatoxins, OTA, and ZEA previously required several, separate analyses, demanding considerable time and material.

AOZ HPLC™ from VICAM is the trusted test that employs a single column to simultaneously isolate aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>; OTA; and ZEA. Using a single monoclonal antibody-based immunoaffinity column and HPLC, this test produces precise numerical results in micrograms per kilogram (µg/kg) or parts per billion (ppb).

An ideal cleanup step for any HPLC, AOZ HPLC has a long shelf life, requires no refrigeration, and can be used with a variety of samples. 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

**Comprehensive** – Detects aflatoxins B<sub>1</sub>, B<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>; 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

### Cultivating Success Through Science™:

#### Extract Sample

- Grind and weigh sample
- Add acetonitrile or methanol/water mixture

#### Dilute and Filter

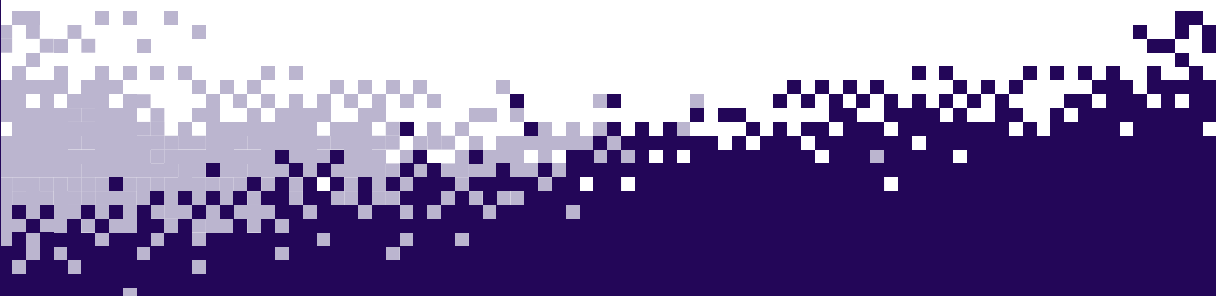
- Filter
- Dilute extract

#### Absorb and Elute

- Pass diluted extract over AOZ HPLC affinity column
- Wash column
- Elute aflatoxins, ochratoxin A, and zearalenone and collect in cuvette

#### Measure

- Inject eluate into HPLC
- Determine aflatoxin, ochratoxin A, and zearalenone concentrations



**ORDERING INFORMATION**

<b>Cat. No.</b>	<b>Description</b>	<b>Cat. No.</b>	<b>Description</b>
G1031	AOZ HPLC Columns (25 per box)	20050	Graduated Cylinder, 50 mL
G1056	AOZ HPLC Kit	20250	Graduated Cylinder, 250 mL
G1113	10X Concentrate Phosphate Buffered Saline (PBS), 150 mL	21020	Single Position Pump Stand <sup>†</sup>
G1114	10X Concentrate 0.01% Tween/PBS, 150 mL	31955	Microfiber Filters, 1.5 µm, 11 cm (100)
G1118	WB Column Coupling (6)	35016	Methanol, HPLC Grade (4 X 4 L)
G1130	Acetonitrile, HPLC Grade (4 x 4 L)		

<sup>†</sup>Multiple position pump stands available

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