



ZearalaTest™ WB Affinity Column



Precise Numerical Results

Zearalenone is an estrogenic mycotoxin produced by the fungus *Fusarium graminearum*. Zearalenone induces feminization in animals at concentrations in feed of about 1 mg/kg. Higher concentrations (50–100 mg/kg) can interfere with conception, ovulation, implantation, fetal development, and the viability of newborn animals. Increasingly concerned with human ingestion of this mycotoxin, the European Union is considering a full slate of proposed regulations for zearalenone in foods ranging from bread to breakfast cereals.

Using monoclonal antibody-based affinity chromatography, ZearalaTest™ WB is a new HPLC-only test for the detection of zearalenone using wide bore immunoaffinity columns. With a total volume of 3 mL, compared to the total of 1 mL in VICAM's standard columns, ZearalaTest WB allows for a faster flow rate preferred by many laboratories and is the ideal cleanup step for any HPLC.

ZearalaTest WB is one of many wide bore columns available from VICAM. Through the development of this fast-flow WB product line, VICAM demonstrates a commitment to improving mycotoxin testing and responding to our customers' needs.

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

*excluding preparation and extraction

Here's How Simple ZearalaTest WB is 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 ZearalaTest WB affinity column
- Wash column
- Elute zearalenone and collect in a cuvette

Measure

- Inject eluate into HPLC
- Determine zearalenone concentration



Ordering Information

Cat. No.	Description
G1026	ZearalaTest WB Columns (25 per Box)
31240	VICAM Fluted Filter Paper, 24 cm (100)
31955	Microfiber Filters, 1.5 µm, 11 cm (100)
34000	Disposable Cuvettes (250 per Pack)
35016	Methanol, HPLC Grade (4 X 4 L)
G1124	Noniodized Sodium Chloride (Salt, NaCl)
G1118	WB Column Coupling (6)
20050	Graduated Cylinder, 50 mL
20100	Digital Scale with AC Adapter
20200	Commercial Blender with Stainless Steel Container
20300	Glass Blender Jar
20250	Graduated Cylinder, 250 mL
20700	Wash Bottle, 500 mL

Cat. No.	Description
21010	Cuvette Rack
21020	Single Position Pump Stand†
23040	Vortex Mixer
36020	Filter Funnel, 65 mm (10 per Pack)
36022	Filter Funnel, 105 mm (4 per Pack)
20656	Micro-pipette Tips for 1 mL Micro-pipettor (100)
G4033	Micro-pipettor, 1 mL

Also required; must be sourced locally:

Distilled, Reverse Osmosis, or Deionized Water
 Zearalenone Standard 50 ng/µL from Supelco

† Multiple position pump stands available

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 ZearalaTest™WB products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the ZearalaTest WB procedures.

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