



Precise Numerical Results

Zearalenone induces feminization in animals at concentrations as low as 1 ppm in feed. Higher concentrations (50–100 ppm) can interfere with conception, ovulation, implantation, fetal development, and the viability of newborn animals. Using monoclonal antibody-based affinity chromatography, ZearalaTest™ from VICAM is trusted to deliver precise, on-time data to grain and feed processors.

ZearalaTest is safe and simple. It can be performed in less than 15 minutes and requires no special skills. Results may be recorded using a digital fluorometer readout or automatic printing devices. ZearalaTest is also ideal as the cleanup step for any HPLC analysis. With ZearalaTest you have the best of all worlds: sensitivity, simplicity, and speed — quick tests for parts per million levels. In fact, no other test comes close for speed, quantification, and economy.

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 10 ppb (HPLC) and as high as 5 ppm

Safe – Requires less toxic materials than conventional methods



HERE'S HOW SIMPLE VICAM TESTS ARE TO USE:

EXTRACT SAMPLE

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

DILUTE AND FILTER

- Dilute extract
- Filter

ABSORB AND ELUTE

- Pass filtrate over ZearalaTest

AFFINITY COLUMN

- Wash column
- Elute zearalenone and collect in cuvette

MEASURE

- Add Developer and place cuvette into a calibrated fluorometer, or
- Inject Eluate into HPLC
- Determine zearalenone concentration

* Excluding preparation and extraction.



ORDERING INFORMATION

Cat. No.	Description	Cat. No.	Description
G8036	ZearalaTest Upgrade Pack for fluorometer [†]	20656	Micro-pipette tips for 1 mL Micro-pipettor
G1012	ZearalaTest Columns (25 per box)	G4033	Micro-pipettor, 1 mL
176002722	ZearalaTest HPLC Kit (50 columns and 1 Standard)	36020	Filter Funnel, 65 mm (10 per pack)
G1058	ZearalaTest HPLC kit (100 columns and 1 Standard)	36022	Filter Funnel, 105 mm (4 per pack)
33020	Mycotoxin Calibration Standards	36010	Disposable Plastic Beakers (25 per pack)
32011	ZearalaTest Developer (50 mL)	20050	Graduated Cylinder, 50 mL
G1112	10x concentrate of 0.1% Tween PBS (150 mL)	20250	Graduated Cylinder, 250 mL
G1124	Noniodized Sodium Chloride (Salt, NaCl)	21020	Single Position Pump Stand ^{**}
35016	Methanol, HPLC Grade (4 x 4L)	20100	Digital Scale with AC Adapter
G1130	Acetonitrile (4 x 4L)	20200	Commercial Blender with Stainless Steel Container
34000	Disposable Cuvettes (250 per pack)	20300	Glass Blender Jar
21010	Cuvette Rack	FLSEREX	Series-4EX® Fluorometer
31240	VICAM Fluted Filter Paper, 24 cm (100)	23040	Vortex Mixer
G2005	Microfiber Filters, 1.0µm, 9 cm (100)		
31967	Kim Wipes		
20700	Wash Bottle, 500 mL		
20501	500 mL Bottle Dispenser for Methanol (0-3 mL range)		
20652	Disposable Plastic Pipets, 1 mL (50 per pack)		

Also required; must be sourced locally:

Distilled, Reverse Osmosis, or Deionized Water

[†] Included with ZearalaTest Upgrade Pack: large pipet tips (100), ZearalaTest developer, microfiber filter paper, 9cm (100), micro-pipettor 1.0 mL and Instruction Manual

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

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