



- **Quick** – Less than 15 minutes to test (excluding sample preparation and extraction)
- **Sensitive** – Detects levels as low as 0.1 ppm for Fluorometer and 0.01 ppm for HPLC
- **Wide range** – Can measure levels as high as 5 ppm
- **Convenient** – Use same extract and instrumentation for testing for other mycotoxins
- **Easy** – No special skills required, test can be performed virtually anywhere
- **Safe** – Requires less toxic materials than conventional methods

## 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 ppm. Higher concentrations (50-100 ppm) can interfere with conception, ovulation, implantation, fetal development, and the viability of newborn animals. Using monoclonal affinity chromatography, *ZearalaTest*™ from VICAM is the only zearalenone test that produces precise numerical results.

*ZearalaTest* is safe and simple. It can be performed in less than 10 minutes and requires no special skills. Results may be recorded using a digital fluorometer readout or automatic printing devices. And, you have the best of all worlds: sensitivity, simplicity, and speed - quick tests for parts per million levels. *ZearalaTest* is also ideal as the cleanup step for any HPLC or TLC analysis.

Unaffected by heat or humidity, *ZearalaTest* has a long shelf life. In fact, no other test comes close for speed, quantification, and economy.

### *Here's how simple ZearalaTest is to use:*

#### **Extract sample**

- Grind and weigh sample
- Blend sample with salt and methanol / water mixture
- Filter

#### **Dilute and filter**

- Dilute a portion of filtered extract
- Filter

#### **Absorb and Elute**

- Pass a portion of filtrate over *ZearalaTest* affinity column
- Wash column with buffer and water
- Elute zearalenone from the column with methanol and collect in a cuvette

#### **Measure**

- Add Developer and place cuvette into a calibrated fluorometer and read results in ppm, or
- Inject Eluate into HPLC
- Determine zearalenone concentration by HPLC



## ZearalaTest:

- Digital readout in ppm or can be used as a clean up for HPLC
- Requires no special storage or refrigeration
- Has shelf life of 18 months
- Not affected by heat or humidity up to 30°C
- Can be used with a variety of samples

## Ordering Information

Cat. No.	Description	Cat. No.	Description
G8011/ G8012	ZearalaTest Series-4 Fluorometer Basic Equipment Package G8011, 110 V for U.S.A. / G8012, 220 V for international Includes Series-4 Fluorometer, Series-4 printer paper, mycotoxin instructional video, waste collection beaker, filter funnels (65 mm), glass syringes (10 mL), disposable cuvettes, mycotoxin calibration standards, ZearalaTest developer, Kim Wipes tissues, microfibre filters (1 µm), VICAM fluted filter paper (24 cm), single position pump stand (10 mL), cuvette rack, wash bottle (500 mL), disposable plastic pipets, bottle dispenser for methanol (500 mL), 2 glass blender jars (500 mL), graduat- ed cylinder (250 mL), commercial blender with stainless steel container, digital scale with adapter, graduated cylinder (50 mL), disposable plastic beakers, micropipettor (1 mL), micro-pipet tips (1 mL), and ZearalaTest instruction manual.	G1012	ZearalaTest columns, (25)
		33020	Mycotoxin calibration standards
		34000	Cuvettes, (250)
		35016	Methanol, HPLC grade, 4 x 4 L bottles
		G8036	ZearalaTest upgrade pack - micropipettor (1 mL), micro-pipet tips (1 mL), microfibre filters (1 µm), ZearalaTest developer



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Each item available individually.



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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 analytical 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 analytical procedures and products. VICAM makes no warranty of any kind, express 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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