



T-2/HT-2 HPLC Affinity Column

Precise Numerical Results

T-2/HT-2 toxins are produced by various *Fusarium* fungi that naturally occur in wheat and other cereal grains. Ten times more toxic than the potentially lethal contaminant deoxynivalenol (DON), T-2/HT-2 toxins attack the immune system in livestock, causing serious health problems ranging from skin lesions and weight loss to shock and hemorrhagic fever. Researchers have also linked T-2/HT-2 to the devastating human disease alimentary toxic aleukia (ATA). The mounting evidence on the deadly effects of T-2/HT-2 exposure has raised concerns among food safety regulators worldwide and underscores the importance of test methods that can detect trace amounts of these toxins before they reach human and animal consumers.

VICAM's new T-2/HT-2™ HPLC test kit combines our proven immunoassay technology with high-performance liquid chromatography (HPLC), the preferred analytic method of laboratories around the world, to detect and measure T-2/HT-2 toxins. The highly selective monoclonal antibodies in VICAM patented immunoaffinity columns streamline sample cleanup and, when used in conjunction with UV detection, provide precise, reliable readings of contamination levels ranging 1,000 ng to 100 ng.*

This sensitive, reliable HPLC-only test has a long shelf life and can be used with a variety of samples. No other test method comes close to VICAM's for speed, precision, and specificity.

Benefits:

Powerful – Designed exclusively for HPLC use

Convenient – Uses same methods as other VICAM tests

Durable – Long shelf life; requires no refrigeration

Versatile – Can be used with a variety of samples

Wide Range – Reliable readings of contamination levels ranging 1,000 ng to 100 ng.*

Safe – Requires less toxic materials than other methods

Here's How Simple T-2/HT-2 HPLC Is to Use:

Extract Sample

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

Dilute and Filter

- Dilute extract
- Filter

Absorb and Elute

- Pass filtrate over T-2/HT-2 HPLC affinity column
- Wash column
- Elute T-2/HT-2 and collect in cuvette

Measure

- Dry and reconstitute eluate
- Inject into HPLC
- Determine T-2/HT-2 concentration



Ordering Information

| Cat. No. | Description | Cat. No. | Description |
|-----------|---|----------|--|
| 176000207 | T-2/HT-2™ HPLC Columns (25 per box) | 20656 | Micropipette Tips for 1 mL Micropipettor (100) |
| 176000208 | T-2/HT-2 HPLC Kit - 100 columns and 1 Set Standards | 20700 | Wash Bottle, 500 mL (1) |
| G1124 | Noniodized Sodium Chloride (salt, NaCl) | 21010 | Cuvette Rack |
| G1130 | Acetonitrile, HPLC Grade (4 x 4 L) | 21020 | Single Position Pump Stand* |
| G4033 | Micropipettor, 1 mL | 31242 | DONtest™ Fluted Filter Paper for HPLC, 24 cm (100) |
| 20050 | Graduated Cylinder, 50 mL | 32016 | OchraTest™ Eluting Solution |
| 20100 | Digital Scale with AC Adapter | 35016 | Methanol, HPLC Grade (4 x 4 L) |
| 20200 | Commercial Blender with Stainless Steel Container | 36010 | Disposable Plastic Beakers (25 per pack) |
| 20250 | Graduated Cylinder, 250 mL | 36020 | Filter Funnels, 65 mm (10 per pack) |
| 20652 | Disposable Plastic Pipettes, 1 mL (50) | 36022 | Filter Funnels, 105 mm (4 per pack) |

Also required; must be sourced locally:

Distilled, Reverse Osmosis, or Deionized Water

Silanized Glass Cuvettes

Whatman GF/A Glass Microfiber Filters

* Multiple position pump stands available.

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The analytical methods presented in this data sheet have been researched and developed by VICAM to be used exclusively with T-2/HT-2™ HPLC products. These analytical methods have been validated in the VICAM laboratories to perform to the specifications indicated in the T-2/HT-2 HPLC procedures.

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