



Precise Numerical Results

T-2 is a toxin produced by various Fusarium fungi that naturally occur in wheat and other cereal grains. Ten times more toxic than deoxynivalenol, T-2 attacks 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 to the devastating human disease alimentary toxic aleukia (ATA). The mounting evidence on the deadly effects of T-2 exposure has raised concerns among food safety regulators and underscores the importance of test methods that can detect trace amounts of this toxin before it reaches consumers.

Using monoclonal antibody-based affinity chromatography, T-2test™ HPLC is an HPLC-only test for the detection of T-2 using immunoaffinity columns. This fast, reliable test provides precise numerical results and can measure levels of T-2 as low as 5 ppb and as high as 1500 ppb.

An ideal cleanup step for any HPLC, T-2test HPLC has a long shelf life and provides precise numerical results in parts per million levels. 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

Durable – Long shelf life; requires no refrigeration

Versatile – Can be used with a variety of samples

Wide Range – Detects levels as low as 5 ppb and as high as 1500 ppb

Safe – Requires less toxic materials than other methods

HERE'S HOW SIMPLE VICAM TESTS ARE TO USE:

EXTRACT SAMPLE

- Grind and weigh sample
- Add methanol/water mixture and blend
- Centrifuge and filter

DILUTE AND FILTER

- Dilute extract
- Filter

ABSORB AND ELUTE

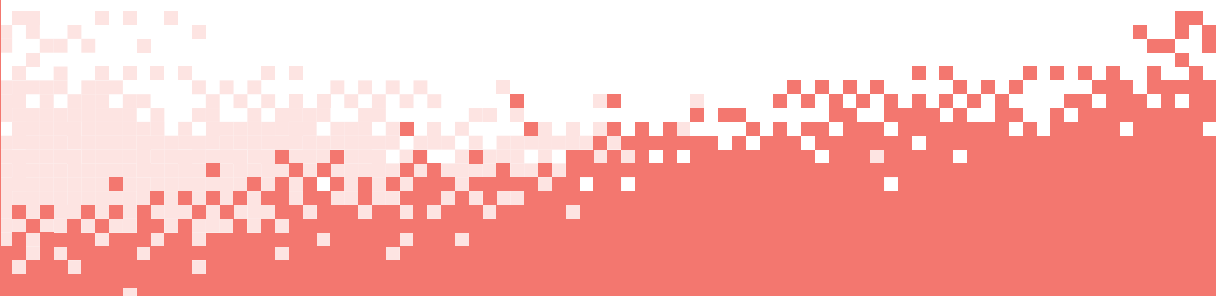
- Pass filtrate over T-2test HPLC affinity column
- Wash column
- Elute T-2 and collect in cuvette

DERIVATIZE

- Evaporate eluate
- Derivatize with 1-AN and DMAP
- Heat 15 minutes; cool 15 minutes
- Evaporate mixture and reconstitute in mobile phase

MEASURE

- Inject into HPLC
- Determine T-2 concentration



ORDERING INFORMATION

Cat. No.	Description
G1028	T-2test HPLC Columns (25 per box)
176002728	T-2test HPLC Kit (50 columns + 1 Standard)
G1045	T-2 HPLC Kit (100 columns + 1 Standard)
20050	Graduated Cylinder, 50 mL
20100	Digital Scale with AC Adapter
20200	Commercial Blender with Stainless Steel Container
20250	Graduated Cylinder, 250 mL
20300	Glass Blender Jar, 500 mL
20604	Micro-pipettor, 50 µL
20658	Micro-pipette Tips for 50 µL Micro-pipettor
20700	Wash Bottle, 500 mL (2)
21010	Cuvette Rack
21020	Single Position Pump Stand [†]
23040	Vortex Mixer
35016	Methanol, HPLC Grade (4 x 4 L)
36010	Disposable Plastic Beakers (25 per pack)

Cat. No.	Description
36020	Filter Funnels, 65 mm (10 per pack)
36022	Filter Funnel, 105 mm (4 per pack)

Also required; must be sourced locally:

- Centrifuge Suitable for 3000 g and 4° C
- Distilled, Reverse Osmosis, or Deionized Water
- 4-dimethylaminopyridine (DMAP)
- 4 mL Silane-treated Amber Vials
- Heating Block (50° C) and Nitrogen Tank or Speed-vac Evaporator
- Ice
- 1-anthroylnitrile (1-AN)
- Toluene
- Whatman GF/A Filter Paper
- Whatman #4 Filter Paper

[†] Multiple position pump stands available

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