

CitriTest HPLC

MYCOTOXIN TESTING SYSTEM



HERE'S HOW SIMPLE VICAM TESTS ARE TO USE:

EXTRACT SAMPLE

- Grind and weigh sample
- Add methanol/water mixture
- Blend or shake then filter

DILUTE AND FILTER

Dilute extract

ABSORB AND ELUTE

- Pass filtrate over CitriTest HPLC affinity column
- Wash column
- Elute citrinin and collect in cuvette

MEASURE

- Inject into HPLC
- Determine citrinin concentration

Precise Numerical Results

Citrinin, a toxin from a naturally occurring mold, contaminates rice, wheat, flour, barley, maize, rye, oats, peanuts, and fruit. It is also a widespread contaminant of red rice, which is not only a dietary staple in many Asian countries, but also a main ingredient in many other food products. It is also used in the popular herbal supplement red yeast rice extract which is used to reduce cholesterol levels.

Produced by Aspergillus ochraceus, Monascus and Penicillium citrinum, citrinin has been known to cause kidney damage and mild liver damage in livestock and is suspected to cause kidney and liver damage in humans. Because of concerns over citrinin contamination, Japan has issued an advisory limit of 200 ppb and the European Union has a recommended limit of 100 ppb.

Using monoclonal antibody-based affinity chromatography, CitriTest® HPLC is an HPLC test for the detection of citrinin using immunoaffinity columns. Performed in less than 20 minutes, CitriTest HPLC can measure levels of citrinin as low as 10 ppb and as high as 500 ppb.

An ideal cleanup step for any HPLC, CitriTest HPLC has a long shelf life and provides precise numerical results in parts per billion 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

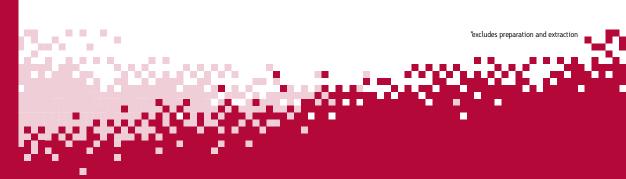
Convenient – Uses same methods as other VICAM tests

Durable – Long shelf life

Ouick - 20 minutes to isolate toxin*

Wide Range – Detects levels as low as 10 ppb and as high

as 500 ppb



@vicamwaters

ORDERING INFORMATION

Cat. No.	Description
G1070	CitriTest HPLC Columns (25 per box)
G1112	$10\mbox{X}$ Concentrate of 0.1% Tween PBS, 150 ml
G1113	10X Concentrate of PBS, 150 ml
G1118	WB Column Coupling (6)
20050	Graduated Cylinder, 50 mL
20250	Graduated Cylinder, 250 mL
21020	Single Position Pump Stand [†]
23040	Vortex Mixer
31955	Microfiber Filters, 1.5µm, 11 cm (100)
35016	Methanol, HPLC Grade (4 x 4 L)
100000185	CitriTest HPLC Kit (100 Columns + 1 Standard)

Also required; must be sourced locally:

O-phosphoric acid, HPLC grade Distilled, Reverse Osmosis, or Deionized Water

†Multiple position pump stands available

Subject to change without notice.

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