

# TC-F120 Fumonisin Column

Rapid chromatography clean-up for the detection of Fumonisin by use of HPLC and other detection methods.

## General Information:

The packing material used in the PuriTox column is contained in a polypropylene reservoir barrel. The TC-F120 is a gravity flow column which may be used with a vacuum manifold system. The large reservoir barrel allows for increased sample extract to be placed on each column. Each column is easily identifiable with a pink stripe at the neck of each barrel.

Recovery of Fumonisin in grain samples using the TC-F120 PuriTox columns is 80%.

## Instructions for Use:

The TC-F120 PuriTox column is used during the purification process for the detection of Fumonisin. Make sure all method instructions are used during testing. The following instructions are to be used during the purification phase only.

## Materials Provided:

- 25 TC-F120 PuriTox columns
- Instruction Manual

## Equipment Needed (not provided):

- Test Tube
- Micropipette
- Vacuum Manifold
- Methanol
- 3/1 Methanol/ Water
- pH Strip

## Procedure:

1. For each sample use a new column.
2. Connect PuriTox column to vacuum manifold apparatus.
3. The PuriTox column must be preconditioned before use. Rinse column with 5 ml of methanol followed by 5 ml of 3/1 methanol/ water. Flow rate should be approximately 1 ml/minute.
4. Check the pH of each sample extract with a pH strip prior to analysis. The pH of each sample should be within a 6 – 9 range for optimum recovery through the column.
5. After the column has been preconditioned and sample extract pH is within the 6 – 9 range, pipette sample and solvents according to your method instructions or SOP into a separate test tube.
6. Pour this solution into the top of the PuriTox column. Let solution drain through the column.
7. Rinse column with appropriate wash solution according to your method instructions or SOP, let wash solution drain through the column.
8. After rinsing, place a clean test tube within the side-arm flask with the needle inside the test tube for collection.
9. Elute the PuriTox column with the appropriate solvent according to your method instructions or SOP and let drain through to the test tube.
10. Remove column and dispose of in proper receptacle.
11. Evaporate the purified extract to dryness per method instructions.
12. Derivatize the dried sample per method instructions or SOP and perform the chromatography analysis.

See reverse side for instruction diagram.

## Customer Support:

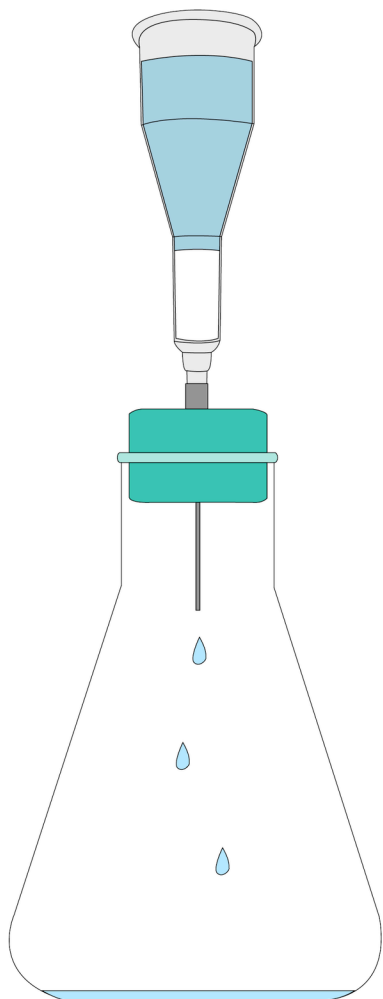
Customer support for any PuriTox Column is available from Trilogy Analytical Laboratory. Mycotoxin methods are available upon request.

Trilogy Analytical Laboratory  
870 Vossbrink Dr.  
Washington, MO 63090

Phone: (636) 239-1521  
Fax: (636) 239-1531  
trilogylab.com

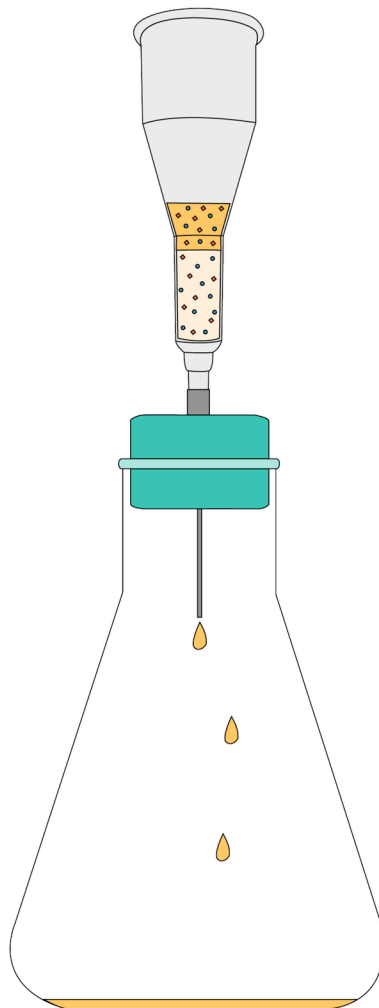
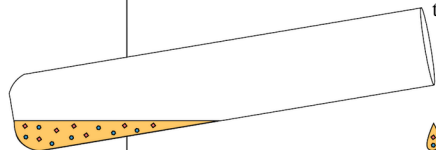


After connecting column to vacuum manifold\*, pre-condition column by rinsing with 5 ml of methanol followed by 5 ml of 3/1 methanol/water. Flow rate should be 1 ml/minute.

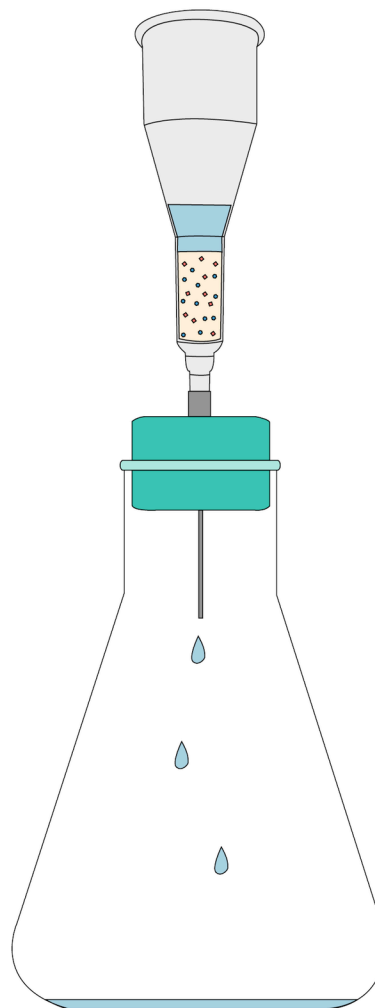
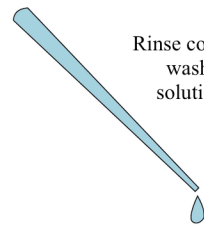


\*vacuum manifold styles will vary

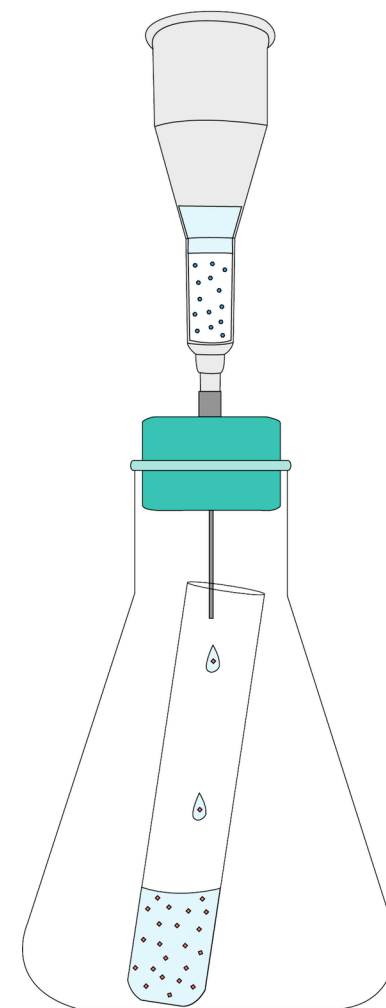
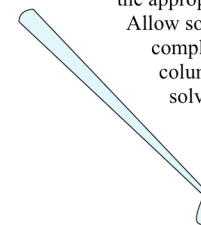
Load sample and solvent solution into column. Allow solution to drain completely through column.



Rinse column with appropriate wash solution. Allow wash solution to drain completely through column.



Elute the column with the appropriate solvent. Allow solvent to drain completely through column, collecting solvent in a clean test tube.



- - impurities
- ◆ - toxins

Please refer to written instructions for further information.