

# PuriTox Charcoal-Alumina Column

Rapid chromatography clean-up for the detection of Type A and B Trichothecene by the use of HPLC, GC, and other detection methods.

## Specification and Instruction Guide

### PURITOX CHARCOAL-ALUMINA COLUMNS



#### SPECIFICATIONS

- Product Number:** TC-220  
**Package:** 25 units  
**Makeup:** mixture of solid phase powder contained in plastic syringe

The proprietary packing material used in the PuriTox column is contained in a polypropylene syringe barrel. A polypropylene plunger is included and is used to push the extract through the packing material. The packing material in the columns retains large molecules, and more importantly contains several active sites to adsorb various interfering compounds such as fats, pigments, carbohydrates and proteins.

PuriTox columns are unlike affinity columns and other solid phase extraction (SPE) columns that have been used extensively for extract purification. Both the affinity column and other SPE columns require 3 steps for extract purification: (1) retain the compound on the packing material of the column, (2) wash away unwanted compounds, and (3) elute compounds of interest. A PuriTox column cleanup requires only one sample loading and wash step.

#### Instructions for Use

1. For each sample use a new column.
2. Remove plunger from column to be used.
3. Place column inside test tube for collection and place test tube in test tube rack.
4. Pipet appropriate sample extract volume into top of PuriTox column. This volume will be determined by the method instructions.
5. Use plunger to quickly push sample through the column purification material into the test tube.
6. Remove plunger and pipet the appropriate wash solvent into the top of the PuriTox column. The reagents and amounts will be determined by your method instructions.
7. Use plunger to push reagent through the purification material and into the test tube.
8. Remove column and dispose of in proper receptacle.

#### Instructions for Use (continued)

9. Evaporate the purified extract and wash solution to dryness per method instructions.
10. Reconstitute the dried sample per method instructions and perform the chromatography analysis.

See reverse for visual instructions.

#### Customer Support

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

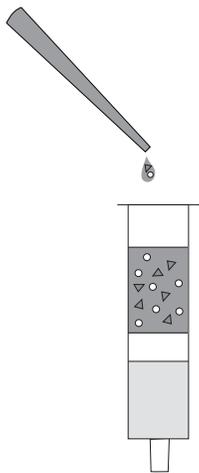
Video demonstrations for all PuriTox Columns, MSDS, and more information are all available on [www.trilogylab.com](http://www.trilogylab.com).



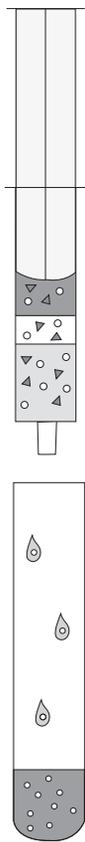
**Trilogy Analytical Laboratory**  
870 Vossbrink Dr.  
Washington, MO 63090

[www.trilogylab.com](http://www.trilogylab.com)  
636.239.1521

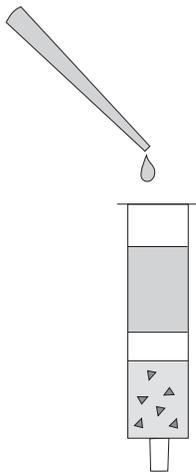
Sample extract is loaded to top of the column.



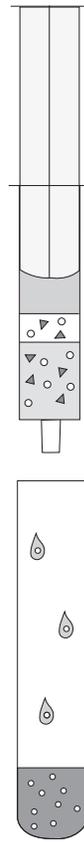
Plunger is inserted into column, and pushes unpurified extract completely through column



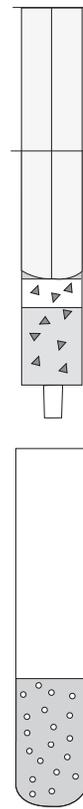
Plunger is removed and wash solvent is loaded into column.



Plunger pushes wash solvent completely through column.



Impurities are bound and retained in the packing



- toxins
- ▲ impurities

refer to written instructions for detailed instructions.