

# TC-T220 Trichothecene Column

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

## General Information:

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:

The TC-T220 PuriTox column is used during the purification process for the detection of Type A and B Trichothecene. 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-T220 PuriTox columns with plungers
- Instruction manual

## Additional Equipment Needed (not provided):

- Test Tube
- Micropipette
- Test Tube Rack

## Procedure:

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.
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.

