

ProteCol™

Trap & Guard Columns



ProteCol Trap and Guard Columns are designed specifically for the needs of Capillary LC.

- Integrated column and connection tubing design
- PEEKsil™ column and connecting tubing for an inert smooth flow path
- Zero dead volume, for the best Capillary LC performance

Increased sensitivity

ProteCol Trap Columns allow preconcentration or the desalting of a sample before injection onto the analytical column.

The short, flexible design allows easy, efficient injector valve installation.

SGE also supplies a PEEK™ fitting to connect the 1/32" tails into the common 10-32 injector seats.

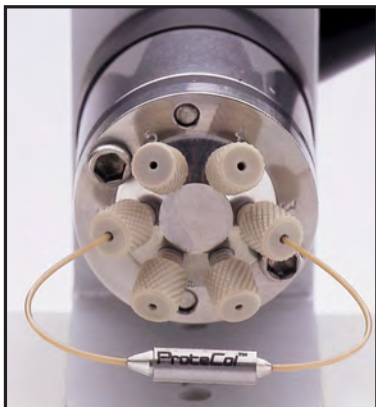


Figure 1.
ProteCol Trap
Column installed.

Protect your investment



Figure 2. ProteCol Guard Column.

ProteCol Guard Columns protect and maintain the integrity of the analytical column from the effects of chemical and particulate contaminants.

Chemical contaminants include any compound that affects the integrity of the stationary phase, or irreversibly binds to it.

These contaminants can alter an analytical column's characteristics resulting in a multitude of symptoms including peak tailing, peak splitting, high back pressures, reduced efficiency, shifted retention times, poor resolution etc.

Placing a guard column in front of the analytical column isolates these contaminants on the guard column, which is easily and cheaply replaced, rather than destroying the expensive analytical column.

Particulates are simply filtered out by the guard column.

Designed for performance

ProteCol Trap and Guard Capillary Columns are designed so that the column body, column closure (screen), endfitting and the connecting tubing are all integrated into a single sealed unit. This design eliminates dead volume and achieves optimal flow characteristics, thus minimizing dispersion.

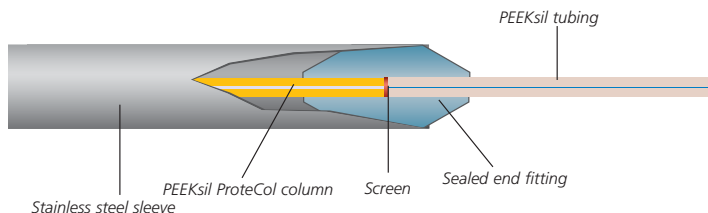


Figure 3. Integrated fused silica lined PEEK (PEEKsil) tubing column design.

The column body and connection tubing “tails” are made from PEEKsil tubing (fused silica lined PEEK). The fused silica provides an inert smooth flow path; the PEEK outer shell gives a flexible robust construction.

The ends of the tails are precisely square cut and polished to achieve zero dead volume connections when used with ProteCol Unions.

For a full listing of all ProteCol products, specifications and part numbers, please see the ProteCol Ordering Information data sheet.

To talk with a technical expert, email support@sge.com.

View the ProteCol Trap and Guard column specifications and purchase online.

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* Patent Pending



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