

INSTRUCTIONS FOR USE OF ALC GUARD COLUMN

The ALC Guard Column prevents particulates and highly adsorptive compounds from reaching the analytical column. The PEEK guard column has a 57 μL bed volume of packing material to remove some of the more highly adsorptive components from the mobile phase. The PEEK guard column is compatible with biologically active samples and its small volume minimizes contribution to chromatographic band broadening.

PRODUCT SPECIFICATIONS

Guard Column

| | |
|-------------------------|---|
| Housing Material: | Polyetheretherketone (PEEK) and Delrin |
| Pressure Rating: | 0 - 5.000 psi |
| Chemical Compatibility: | Not recommended for use with concentrated nitric or sulfuric acids, THF or DMSO |

Connecting Tubing

| | |
|----------------|---------------------|
| Material: | PEEK |
| Size: | 1/16" OD, 0.010" ID |
| Frit Porosity: | 2 μm |

Guard Cartridge

| | |
|--------------------|-----------------------------------|
| Barrel Material: | PEEK |
| Barrel Dimensions: | 11.2 x 6.3 mm (length x diameter) |
| Bed Volume: | 57 μL |
| Packing Material: | As labelled |
| Particle Size: | 10 μm |

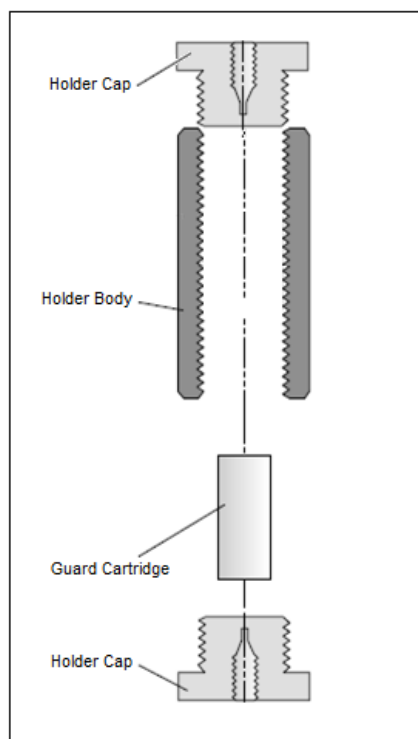


Figure 1. Exploded view of ALC guard column

CARTRIDGE AND HOLDER INSTALLATION

Follow these steps to install the ALC guard column, and refer to Figure 1.

1. Insert the guard cartridge into one of the holder caps.
2. With the holder body in the vertical position, screw the assembled holder cap/guard cartridge into the bottom of the holder body and tighten by turning clockwise several full rotations.
3. Screw the second holder cap into the top of the holder body and tighten by turning clockwise several full rotations.
4. Alternate turning each holder cap clockwise until contact with the guard cartridge is made with both holder caps. Once contact has been made, place a ½" wrench on each holder cap and tighten 1/8 – 1/4 turn.
5. Connect the holder assembly to the injector, leaving one end free. Polymeric nuts and ferrules are recommended for connections.
6. Pump approximately 2 mL of mobile phase through the guard column to properly wet the packing material.
7. Connect the exit end of the holder assembly to the column using 1/16" polymeric tubing and polymeric nuts and ferrules.
8. If the guard column or any fittings leak, shut off the flow, dry out the leaking fitting and re-tighten. If leakage persists, disassemble the holder, inspect components for signs of damage, and repair or replace any damaged parts, and reassemble the holder.

The life-time of your ALC guard column is dependent upon the cleanliness of your samples and the mobile phase. Extend guard column life by pre-filtering the mobile phase (nylon filter recommended).

REPLACEMENT PARTS

| | |
|----------|---|
| 250.1082 | ALC guard column starter kit* |
| 250.1084 | ALC guard column replacement cartridges, 5/pk |

*) Starter kit includes a guard column holder and two replacement cartridges.

WARRANTY STATEMENT

Antec Leyden's Instrument Warranty document (nr 150_0040) is applicable for the above-specified product. No other warranty is assumed or implied. It is the responsibility of the purchaser to determine the suitability of application and material compatibility of the products based on the published specifications of the products.

RETURN OF GOODS

Antec Leyden's return and repair policy is written to protect its employees from potentially hazardous materials (e.g., serum, plasma, radioactive materials, carcinogenic chemicals etc.) or any substance that may cause partial or permanent disability during the inspection or repair process. In returning products, a customer acknowledges that the product is free from any hazardous materials. Furthermore, the customer assumes responsibility should the returned goods be determined to be hazardous.