

## Cartridge Guard Columns

- ▶ 100% biocompatible flow path
- ▶ Pressure rated to 4,000 psi (276 bar)
- ▶ Wetted materials are Titanium and PEEK
- ▶ Reusable holder complete with fingertight fittings

Insert one of these Upchurch Scientific® analytical guard columns between the injection valve and column of your HPLC system to extend the life of your column and help ensure reproducible results. Convenient, prepacked PEEK polymer cartridges complete the system and are available in a variety of bonded phases to match your column chemistry held in place by Titanium frits.

The C-270 Stainless Steel Guard Column Holder is engineered for high-pressure applications to 4,000 psi (276 bar). Each of these holders is surface treated to prevent galling\*, a potential problem with threaded metal parts.



The flow path of the C-270 Guard Column Holder is biocompatible. Each comes complete with fittings for 1/16" OD tubing, and can be used with any of the C-28X or C-7XX guard column cartridges listed on this page.

\* Galling is a form of "cold welding." When two fittings manufactured from the same metal are wrench-tightened too tightly, they can "weld" together, making it virtually impossible to separate the two components.



## APPLICATION NOTE

### Why Use A Guard Column?

A guard column can increase the life of your analytical column up to five-fold<sup>1</sup>. Use a guard column with the same packing as your column — it will act as a chemical filter, removing strongly retained materials in your sample that might otherwise contaminate your analytical column. And, it is more economical to replace a guard column cartridge than to buy a new analytical column.

<sup>1</sup>Uwe D. Neue, HPLC Troubleshooting – Column Durability, American Laboratory, 1999, 22:44-7.

## SPECIFICATIONS & DETAILS

Packing Material Specifications: The cartridges on this page are packed with 5 µm or 10 µm base-deactivated 80 Å spherical silica.

### Part No. Description

#### CARTRIDGE GUARD COLUMN KITS

<b>C-281</b>	2.0 mm ID C18 Cartridges (6-pk) with (1) C-270 Assembly
<b>C-751</b>	4.3 mm ID C18 Cartridges (6-pk) with (1) C-270 Assembly

#### GUARD COLUMN CARTRIDGE HOLDERS, BIOCOMPATIBLE

<b>C-270</b>	High Pressure, Stainless Steel, with (2) F-200 Fittings
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#### GUARD COLUMN CARTRIDGES, BIOCOMPATIBLE

		Qty.
<b>2.0 mm ID x 1 cm, 10 µm Silica</b>		
<b>C-280</b>	Reversed Phase C18	3-pk
★ <b>C-282</b>	Reversed Phase C18	10-pk
<b>C-753</b>	Adsorption Silica	3-pk
<b>4.3 mm ID x 1 cm, 5 µm Silica</b>		
<b>C-750</b>	Reversed Phase C18	3-pk
★ <b>C-752</b>	Reversed Phase C18	10-pk
<b>C-759</b>	Adsorption Silica	3-pk
<b>C-760</b>	Adsorption Silica	10-pk
<b>C-763</b>	Cyano Phase CN	3-pk
<b>C-764</b>	Cyano Phase CN	10-pk