



BIOshell™ Guard Columns

BIOshell™

U/HPLC Columns

BIOshell Guard Columns provide physical (filtration) and chemical protection for costly analytical columns without compromising the very high performance of BIOshell columns. These BIOshell guard columns are capable of continuous use at pressures up to 9000 psi (600 bar) with only hand-tightening. Guard cartridges are easily replaced without removing the guard column holder from the flow path. The cartridges are packed with BIOshell Fused-Core® particles.

How the Cartridge Works

The hybrid ferrule forms a leak-tight seal onto the 1/16-inch tubing when tightened into the column inlet port. The ferrule then releases when the unit is unthreaded from the inlet. The ferrule and the holder threads are designed to be robust and are intended to be used for

repeat connections. The ferrule is resistant to damage from excessive tightening, however, the PEEK end will deform from repeated excessive tightening. For best results, tighten a maximum of 1/4-turn past hand-tight.

Features and Benefits

- High efficiency, low dead volume
- Hand-tighten to 9000 psi
- Direct connection, suitable for all columns and instruments



Ordering Information

Universal Guard Holder

Description	Cat. No.
Holder w/EXP Titanium Hybrid Ferrule -- cartridge not included with holder	66841-U

BIOshell Guard Cartridges

Particle Size (µm)	I.D. (mm)	Qty.	C4	C18	CN
2.7	2.1	3	–	66918-U	66977-U
2.7	3	3	–	66919-U	66978-U
2.7	4.6	3	–	66921-U	66979-U
3.4	2.1	3	66830-U	–	–
3.4	4.6	3	66831-U	–	–
5	2.1	3	–	67016-U	67082-U
5	3	3	–	67017-U	67083-U
5	4.6	3	–	67018-U	67084-U

For product information, ordering and real time availability, visit sigma-aldrich.com/bioshell

©2013 Sigma-Aldrich Co. LLC. All rights reserved. SAFC, SIGMA-ALDRICH and SUPELCO are trademarks of Sigma-Aldrich Co. LLC, registered in the US and other countries. Solutions within is a trademark of Sigma-Aldrich Co. LLC. The Optimize Technologies EXP Titanium Hybrid Ferrule and EXP Holders are Patent Pending. BIOshell is a trademark of Sigma-Aldrich Co. LLC. Fused-Core is a registered trademark of Advanced Materials Technology, Inc. Supelco brand products are sold through Sigma-Aldrich, Inc. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see product information on the Sigma-Aldrich website at www.sigmaaldrich.com and/or on the reverse side of the invoice or packing slip.