

Prepacked preparative HPLC columns with spring-assisted axial compression technology

Features:

- Prepacked YMC-Actus SP columns provide an ideal solution when packing experience or capabilities are limited
- Small footprint - great fit for confined spaces
- Available in 80 - 300 mm ID
- Recommended as a dedicated solution for highly potent, toxic, or radioactive projects

Prepacked Preparative Columns

Prepacked YMC-Actus SP columns are an ideal alternative to DAC columns when lab space, packing capabilities, or financial resources are limited. In addition to YMC-Triart Prep resins Actus SP columns can be packed with YMC*GEL resins, or those from an alternative manufacturer. All columns packed by YMC are QC tested prior to shipment so they are ready to use upon delivery.

Specifications

Packing Material	YMC-Triart Prep / YMC*GEL HG
Available IDs (mm)	80, 100, 150, 200, 300
Column Bed Length	Up to 250 mm
Max Pressure	1450 psi (100 bar)
Filter	SUS316L sintered wire mesh, nominal 2 µm
Piston Movement	Spring Axial Compression
Wetted Materials	SUS316, SUS316L, PTFE
Piping/Connection	Swagelok [®] tube fittings, 1/8" female nut
Installation Environment	10 - 40 °C, ≤ 50% RH
Interior Column Finish	Honing & electrochemical polishing Ra ≤ 0.4 µm for inner surface



Applications

YMC's Actus SP columns are ideal for oligonucleotides desalting and highly potent, toxic, or radioactive projects. Hazardous compounds often require dedicated systems and hardware, rendering traditional DAC columns impractical. Prepacked Actus SP columns eliminate the need to spend time and resources ensuring that a column has been sufficiently cleaned, packed, and validated for reuse.

Overview

The column axis is specially treated with an anti-rust coating to prevent deterioration and ensure lasting compressive strength.

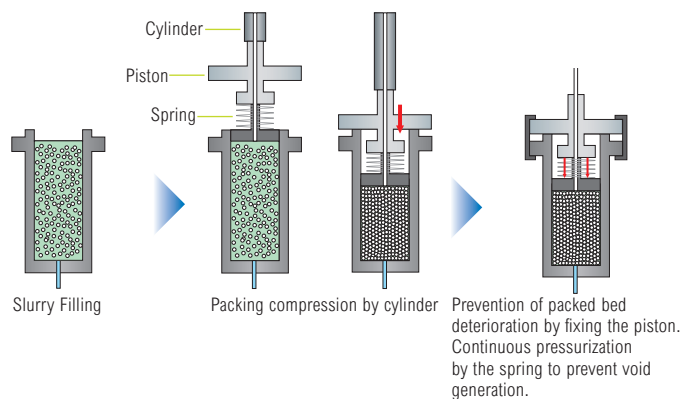
Securing mechanisms at the top and bottom of the column provide a tight seal

Because the column is only 4-5 feet tall and does not need to be attached to a packing station during use, it is ideal for use in labs with limited space.

The wheeled base allows for easy transport within your facility.



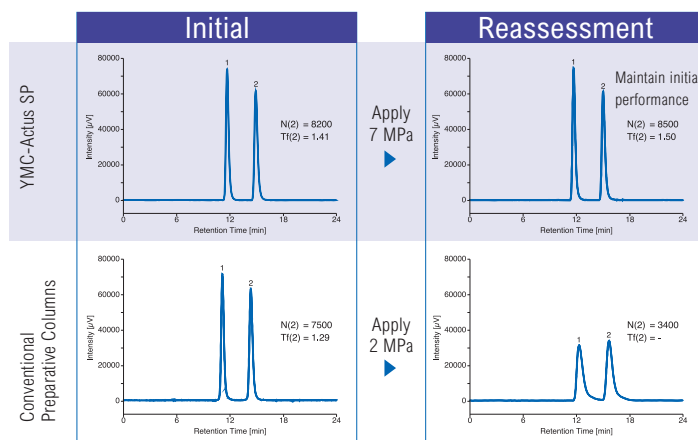
The YMC-Actus SP uses a cylinder to pack the packing material by physical compression. The piston is fixed in place after compression. After packing, the packed bed is kept compressed by a spring in the piston. Therefore, it provides higher pressure resistance and durability.



Reproducible Purification Runs

Conventional column decreased its performance just by applying 2 MPa back pressure. On the other hand, YMC-Actus SP maintained initial theoretical plate and tailing factor after applying 7 MPa.

Column	YMC-Triart Prep C18-5 (10 μm, 12 nm) 250 x 100 mm ID
Eluent	Methanol/water (85/15)
Flow rate	200 mL/min
Sample	1. methylbenzoate 2. Toluene



Ordering Information

For more information about these and other YMC-Actus SP column configurations, including alternate YMC or non-YMC resins, contact your YMC rep or reach out to info@ymc-actus.com.

Packing Material	Pressure Rating	Column Length	ID (mm)*	Product Number	Stand
YMC-Triart Prep C18-S 10 μm, 120Å	1450 psi (100 bar)	250 mm	80	TAS12S11-2581DY-T	Tripod Stand
			80	TAS12S11-2581DY-W	
			100	TAS12S11-25A1DY	Wheeled Stand
			150	TAS12S11-25B1EY	
			200	TAS12S11-25C1EY	
			300	TAS12S11-25D1TY	

Inquire for part numbers and pricing on YMC-GEL HG resins, and columns packed with non-YMC resins.

*150 mm ID and above are not available in Europe. | Swagelok is a registered trademark of Swagelok Company