Packing Silica and Hybrid-Silica Stationary Phases into Glass Columns

The hybrid-silica material YMC-Triart Prep and silica-based materials YMC*Gel can easily be packed into chromatographic glass columns. Here, you'll find helpful calculations and tips for packing the materials.

Calculation of required amount



More detailed support: easy online calculations with the YMC Packing Calculator



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Column Qualification

Qualify the column according to the care and use instructions:

Equilibrate the packed column by pumping the mobile phase.

5–10 CV are recommended for equilibration.

Qualify the packed column as recommended and determine the column performance values.

Practical example:

Packing YMC-Triart Prep C18-S into a 250 x 50 mm ID columnMobile phase:methanol/water (85/15, v/v)Flow rate:50 mL/minDetection:UV at 254 nmSample:toluene (40 μL/mL) in mobile phaseInjection:1 mL





Expected theoretical plate count for the different particle sizes:

Modification	7 µm	10 µm	15 µm	20 µm	50 µm
RP	36,000	25,000	16,000	12,000	4,000

Rely on the YMC Packing Service: Purchase your pre-packed glass column!



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