

HiLoad Superdex 200 pg columns

Product Information

Cat#No# Hi-308P

Product Overview

Designed for high-resolution protein fractionation at preparative scales. Pre-packed with Superdex 200 pg resin, these size exclusion chromatography columns enable purification of mAbs, DNA fragments and other biomolecules with $M_r \sim 10\,000$ to $\sim 600\,000$.

Description

HiLoad Superdex 200 preparation grade resin is well suited for rapid, preparative protein purification and scale-up. Its selectivity curve gives a broad fractionation range from $M_r \sim 10\,000$ to $600\,000$, with excellent resolving power for antibody monomers, dimers and contaminants of lower molecular weight, such as albumin and transferrin.

Characteristic

Preparative-grade: high purity and resolution.

Two column sizes available: for samples up to 5 mL and up to 13 mL.

Prepacked columns: convenient and reproducible; can be used with standalone pump or chromatography system.

Scalable SEC: resin properties and column dimensions optimized for preparative-scale protein purification; choose from two XK column sizes (16/600 or 26/600).

Compatible with ÄKTA systems: fittings (1/16") for direct connection to ÄKTA systems and other chromatography systems.

Maximum operating pressure

0.3 MPa (3 bar, 42 psi)

Matrix

Cross-linked agarose, spherical

Average particle size

$\sim 34\ \mu\text{m}$

HiLoad Superdex 200 pg columns

Recommended flow rate

10 cm/h - 50 cm/h

Recommended column height

600 mm

pH working range

3 to 12

CIP stability

1 to 14

Storage

4 to 30°C, 20% Ethanol

Shipping

20% ethanol

Equilibration

1. One column volume (CV) of low ionic strength buffer at 1 mL/min for 16/600 or 2.6 mL/min for 26/600.
2. Two CV buffer, for example, 0.05 M sodium phosphate, 0.15 M NaCl, pH 7.2 at 1.6 ml/min for 16/600 or 4.3 ml/min for 26/600.

Cleaning-in-place

Wash the column with one-half to one CV 0.5 M NaOH at a flow rate of 0.8 mL/min for 16/600 or 2.2 mL/min for 26/600 to remove most of the nonspecifically bound proteins from the chromatography resin. After cleaning, immediately equilibrate the column with at least two CV buffer. Further equilibration is necessary if the buffer contains detergents. Wait until the UV baseline stabilizes before starting a new purification.

Pack size

1 × 120 mL

Dimensions

16 × 600 mm

HiLoad Superdex 200 pg columns

Column i.d.

16 mm

Column hardware pressure limit

0.5 MPa (5 bar, 73 psi)
