

HiPrep Sephacryl S-500 HR

Product Information

Cat#No# Hi-315P

Product Overview

HiPrep Sephacryl S-500 HR columns are designed for preparative size exclusion chromatography of large macromolecules e.g. viruses or group separation of DNA restriction fragments.

Characteristic

Maximum recovery and minimum nonspecific adsorption with long-term chemical and physical stability resulting from the hydrophilic, rigid allyl dextran/ bisacrylamide matrix.

Gel filtration columns for low to medium pressure ÄKTA systems.

Well-established in industrial production.

The HiPrep Sephacryl series offer reproducible separations over a wide molecular weight range.

Convenient, prepacked HiPrep Sephacryl columns speed up protein purification.

Maximum operating pressure

1.5 bar [0.15 MPa] (22 psi)

Matrix

Cross-linked copolymer of allyl dextran and N,N-methylenebisacrylamide.

Particle Size

25–75 µm

Average particle size

47 µm

Recommended flow rate

15 cm/h

Recommended column height

600 mm

pH working range

HiPrep Sephacryl S-500 HR

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CIP stability

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Storage

4°C to 30°C, 20% Ethanol

Shipping

20% ethanol

Equilibration

1. One column volume (CV) of low ionic strength buffer at 1 mL/min.
2. Two CV of buffer, for example, 0.05 M phosphate buffer, 0.15M NaCl, pH 7.2 at 1.6 mL/min.

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.

Maximum flow velocity

1.0 mL/min

Dimensions

16 × 600 mm

Column volume

120 mL

Column i.d.

16 mm

Column hardware pressure limit

0.5 MPa, 5 bar, 73 psi
