

Sephacryl S-300 HR SEC resin in HiPrep Columns

Product Information

Cat#No# Se-318P

Product Overview

HiPrep Sephadex S-300 HR columns are designed for routine size exclusion chromatography of proteins, such as antibodies and serum proteins.

Description

Sephacryl High Resolution (HR) chromatography resins allow fast and reproducible purification of proteins, polysaccharides, and other macromolecules by size exclusion chromatography (SEC) at laboratory and industrial scale. Five Sephadex HR chromatography resins are available as prepacked columns and in laboratory and larger pack sizes: Sephadex S-100 HR, S-200 HR, S-300 HR, S-400 HR, and S-500 HR.

Characteristic

Wide fractionation range – Mr 10 000–1 500 000 for globular proteins, well suited for antibody purification. High capacity columns – preparative separation of proteins in sample volumes up to 5 mL or 13 mL for 16/60 and 26/60 columns, respectively.

Convenient – prepacked Sephadex columns are easily connected to ÄKTA systems for automated chromatography at low to medium pressure.

Maximum operating pressure

0.15 MPa (1.5 bar, 21.7 psi)

Matrix

Cross-linked copolymer of allyl dextran and N,N'-methylene bisacrylamide.

Average particle size

~ 50 µm

Recommended flow rate

15 cm/h

Recommended column height

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600 mm

Chemical stability

Stable to commonly used aqueous buffers: 0.1 M HCl, 1 M acetic acid, 8 M urea, 6 M guanidine hydrochloride, 1% SDS, 2 M NaCl, 20% ethanol, 30% propanol, 30% acetonitrile.

Physical stability

Negligible volume variation due to changes in pH or ionic strength.

pH working range

3 - 11

CIP stability

2 - 13

Autoclavable

20 min at 121°C in 0.15 M NaCl pH 7, 5 cycles (resin only).

Storage

4 to 30°C, 20% Ethanol

Cleaning-in-place

0.5 M NaOH at 15 cm/h

Maximum flow velocity

1.0 mL/min

Dimensions

16 x 600 mm

Column volume

120 mL

Column i.d.

16 mm



Sephacryl S-300 HR SEC resin in HiPrep Columns

Column hardware pressure limit

0.5 MPa (5 bar, 72.5 psi)

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