Superose 6 Increase columns

Product Information

Cat#No#	Su-323P

Product Overview

Superose 6 Increase SEC columns are designed for high-resolution, small-scale preparative purification, and analysis of large globular proteins, protein complexes, and other macromolecules in the molecular weight range Mr~ 5K to ~ 5M.

Description

Superose 6 Increase prepacked columns are designed for rapid separation and analysis of proteins and other biomolecules by size exclusion chromatography (SEC, also known as gel filtration), in the molecular weight (Mr) range for globular proteins between 5000 and 5 000 000. This very wide fractionation range of the chromatographic resin makes it suitable for purification of protein complexes, membrane proteins, and other macromolecules. The columns are also useful as a screening tool to explore the molecular-weight distribution of unknown samples. This new generation SEC resin replaces the well-known Superose 6 columns.

Characteristic

Wide fractionation range: optimized to purify large biomolecules, including membrane proteins, protein complexes, and DNA fragments. Very high resolution: small bead size and a narrow particle size distribution provide high resolution, for high protein purity.
High flow rates: rigid beads give excellent pressure/flow properties.
Enhanced performance: improved resolution and runtime compared to predecessor.

Matrix

Composite of cross-linked agarose.

Average particle size

~ 8.6 µm

Recommended column height

300 to 310 mm

Chemical stability

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Superose 6 Increase columns

Resistant to most solutions used in liquid chromatography except hydrocarbons, aromatic solvents and chlorinated hydrocarbons.

pH working range
3 to 12
CIP stability
1 to 14
Storage
4˚C to 30˚C, 20% ethanol
Maximum flow velocity
1.50 mL/min, water at room temperature; 0.75 mL/min, 20% ethanol at room temperature; 0.75 mL/min water at low temperature; 0.35 mL/min 20% ethanol at low temperature.
Dimensions
10 × 300 mm
Column volume
~ 24 mL
Column i.d.
10 mm
Bed support
Filter
Material (bed support)
Polyethylene (PE) filter
Material (column tube)
Borosilicate glass
Material (column hardware)

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Borosilicate glass, polyetheretherketone (PEEK), polypropylene (PP), ethylene propylene diene monomer (EPDM), and perfluoro-rubber (PFR).

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