

## 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  $M_r \sim 5K$  to  $\sim 5M$ .

### 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 ( $M_r$ ) 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

$\sim 8.6 \mu m$

### Recommended column height

300 to 310 mm

### Chemical stability

## Superose 6 Increase columns

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

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**pH working range**

3 to 12

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**CIP stability**

1 to 14

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**Storage**

4°C to 30°C, 20% ethanol

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**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.

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**Dimensions**

10 × 300 mm

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**Column volume**

~ 24 mL

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**Column i.d.**

10 mm

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**Bed support**

Filter

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**Material (bed support)**

Polyethylene (PE) filter

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**Material (column tube)**

Borosilicate glass

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**Material (column hardware)**

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## Superose 6 Increase columns

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

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