

Capto SP ImpRes in ReadyToProcess columns

Product Information

Cat#No# Ca-199P

Product Overview

These ReadyToProcess chromatography columns are prepacked with Capto SP ImpRes resin and are a cost-effective solutions for intermediate and polishing purification steps. ReadyToProcess columns are validated high-performance bioprocessing columns that are supplied prepacked and ready for use.

Description

Capto SP ImpRes is strong cation exchangers for the high-throughput intermediate purification and polishing steps of a wide range of biomolecules. Both chromatography media (resins) are part of platform of high-resolution media based on the Capto product line.

By combining the high-flow characteristics of Capto media with a small particle size, Capto SP ImpRes delivers excellent pressure-flow properties with excellent resolution. The ability to run at higher flow rates and higher bed heights increases productivity and flexibility in process design.

Characteristic

High-resolution intermediate purification and polishing resin based on the well-established Capto platform with traditional ligands. Flexible process design due to large operational window of flow rates and bed heights.

High manufacturing productivity enables cost-effective processes.

BioProcess resin developed for large-scale chromatography.

Security of supply and comprehensive regulatory support.

High throughput purifications easy to optimize and scale.

Applications

For manufacturing of biopharmaceuticals for clinical phase I and II studies. Depending on the scale of operations, they can also be used for full-scale manufacturing, as well as for preclinical studies.

Maximum operating pressure

3 bar [0.3 MPa] (44 psi)

Metal ion capacity

Capto SP ImpRes in ReadyToProcess columns

0.13 to 0.16 mmol (H⁺)/mL medium

Matrix

High-flow agarose

Average particle size

40 µm

Dynamic binding capacity

At least 220 cm/h in a 1 m diameter column with bed height 20 cm at 20°C; measured using process buffers with the same viscosity as water at < 3 bar (0.3 MPa, 43.5 psi).

Recommended flow rate

> 70 mg lysozyme/mL medium, > 95 mg BSA/mL medium

Recommended column height

200 mm (7.87 in)

Chemical stability

All commonly used aqueous buffers, 1 M sodium hydroxide, 8 M urea, 6 M guanidine hydrochloride, 30% isopropanol, and 70% ethanol.

pH working range

4 to 12

CIP stability

3 to 14

Storage

4°C-30°C, 20% EtOH + 0.2 M Sodium Acetate

Pack size

1 L

Maximum flow velocity

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300 cm/h (2.3 mL/min)

Dimensions

80 × 200 mm

Column volume

1 L

Column i.d.

80 mm

Column hardware pressure limit

5 bar (0.5 MPa, 70 psi)

Functional group

–CH₂ CH₂ CH₂ SO₃–
