HiTrap Capto Core 700

Product Information

Cat#No#	Hi-288P

Product Overview

HiTrap Capto Core 700 is prepacked with Capto Core 700, a multimodal BioProcess resin for intermediate purification and polishing of viruses and other large biomolecules.

Description

Capto Core 700 is a novel, layered bead chromatography resin consisting of a porous outer layer and ligand-activated core. The octylamine ligands found in the core of the beads are multimodal, being both hydrophobic and positively charged. These internalized ligands bind impurities strongly over a wide range of pH and salt concentration. The pores of the bead outer layer prevent large targets (Mr > 700 000) from binding to the ligands while smaller impurities can enter freely into the beads where they are captured.

Characteristic

High capacity and productivity in flowthrough mode.
Prepacked HiTrap columns for easy screening and convenient process development, as well as small scale purification.
Wide operational window of pH and conductivity.

Maximum operating pressure

5 bar (0.5 Mpa, 70 psi)

Sample preparation

1. Adjust the sample to the composition of the start buffer, using one of these methods: Dilute the sample with start buffer. Exchange buffer using a HiPrep 26/10 Desalting, HiTrap Desalting or PD-10 Desalting column.
2. Filter the sample through a 0.45 µm filter or centrifuge at 10 000 × g for 10 min immediately before loading it to the column. This prevents clogging and increases the life time of the column when loading large sample volumes.

Matrix

Highly cross-linked agarose

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HiTrap Capto Core 700

Average particle size
85 µm
Ligand
Octylamine
Dynamic binding capacity
~13 mg ovalbumin/mL resin
Recommended column height
25 mm
Chemical stability
Stable in commonly used aqueous buffers, 1 M NaOH, 6 M guanidine hydrochloride, 30% isopropanol, 70% ethanol.
pH working range
3 to 13
CIP stability
3 to 14
Storage
4 to 30°C, 20% Ethanol
Cleaning-in-place
Wash with a solution of 1 M NaOH in 30% isopropanol or in 27% 1-propanol with reversed flow direction.
Scaling up
1. Select bed volume according to required sample load. Keep sample concentration constant. 2. Select column diameter to obtain the desired bed height. The excellent rigidity of the high flow base matrix allows for flexibility in choice of bed heights. 3. The larger equipment used when scaling up may cause some deviations from the method optimized at small scale. In such cases, check the buffer delivery and monitoring systems for time delays or volume

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changes.
Pack size
5 × 1 mL
Maximum flow velocity
500 cm/h
Dimensions
7 × 25 mm
Column volume
1 mL
Column i.d.
7 mm
Column hardware pressure limit
0.5 MPa (5 bar, 72 psi)

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