HiTrap Capto adhere ImpRes

Product Information

Cat#No#	Hi-292P

Product Overview

HiTrap Capto adhere ImpRes is a ready-to-use column pre-packed with BioProcess Capto adhere ImpRes strong anion exchange multimodal resin for screening and small-scale protein purifications using ion exchange chromatography (IEX).

Description

The multimodal functionality of Capto adhere ImpRes gives a different selectivity compared with traditional ion exchange columns and it binds proteins at high or low ionic strength.

Characteristic

High yields achieved through the high-resolution beads and selectivity of the ligand.
Efficient removal of aggregates, viruses, and main contaminants in MAb processes.
Columns for screening of selectivity, binding, and elution conditions, as well as for small scale purifications.

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.

Metal ion capacity

0.08 to 0.11 mmol Cl- /mL medium

Matrix

highly cross-linked agarose

Ionic Exchanger Type

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multimodal strong anion exchanger

Average particle size
36 to 44 µm
Recommended flow rate
25 to 50 cm/h
Recommended column height
25 mm
Chemical stability
All commonly used aqueous buffers, 1 M acetic acid, 1 M sodium hydroxide.
pH working range
3 to 12
CIP stability
2 to 14
Storage
4°C to 30°C in 20% ethanol
Cleaning-in-place
1. Wash with at least 2 column volumes (CV) of 2 M NaCl. 2. Wash with at least 3 CV 1 M NaOH with at least 15 min contact time. 3. Wash with at least 2 CV 2 M NaCl. 4. Wash with at least 2 CV distilled water. 5. Wash with 5 CV start buffer or until eluent pH and conductivity have reached the required values.
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.

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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 changes.

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

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