

HiTrap Capto Core 400

Product Information

Cat#No# Hi-287P

Product Overview

Novel core bead technology and multimodal ligand give Capto Core 400 dual functionality, size exclusion and binding chromatography, in one chromatography resin.

Description

Capto Core 400 is an excellent alternative to size-exclusion chromatography (SEC) resins that are typically employed in the final stages of virus purification in vaccine manufacture.

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

Average particle size

90 µm

Ligand

HiTrap Capto Core 400

Octylamine

Dynamic binding capacity

~22 mg ovalbumin/mL resin

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°C 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 changes.

Pack size

5 × 1 mL

Maximum flow velocity

700 cm/h

HiTrap Capto Core 400

Column hardware pressure limit

0.5 MPa (5 bar, 72 psi)
