HiTrap Q XL

Product Information

Cat#No#	Hi-238P

Product Overview

HiTrap Q XL are strong anion exchangers prepacked with Q Sepharose XL media, optimized for fast, convenient small-scale protein capture using ion exchange (IEX) chromatography.

Description

Q Sepharose XL and SP Sepharose XL resins have long chains of dextran coupled to a robust, 6% highly cross-linked agarose matrix. The dextran chains increase the exposure of the Q or SP charged groups, which results in very high loading capacities.

Characteristic

High binding capacities with high flow rates.
Convenient and affordable for fast, easy separations either alone or connected in series.
Designed for use with syringe, peristaltic pump, or chromatography system.

Maximum operating pressure

5 bar [0.5 MPa] (70 psi)

Metal ion capacity

0.18–0.26 mmol Cl- / mL resin

Matrix

Cross-linked agarose, with dextran surface extender, spherical.

Ionic Exchanger Type

Strong anion

Average particle size

~ 90 µm

Dynamic binding capacity

≥ 160 mg BSA/ mL resin

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Recommended flow rate
1 mL/min
Recommended column height
25 mm
Chemical stability
Stable to commonly used aqueous buffers, 1.0 M NaOH, 8 M urea, 20% ethanol, 6 M guanidine hydrochloride, 70% ethanol.
pH working range
2 to 12
CIP stability
2 to 14
Storage
4 to 30°C, 20% Ethanol
Purification procedures

1. Fill the syringe or pump tubing with start buffer (low ionic strength). Remove the stopper and connect the column to the syringe (with the provided connector), or pump tubing, ”drop to drop” to avoid introducing air into the column.
2. Remove the snap-off end at the column outlet.
3. Wash out the preservatives with 5 column volumes of start buffer, at 1 mL/min for HiTrap 1 mL and 5 mL/min for HiTrap 5 mL.
4. Wash with 5 column volumes of elution buffer (start buffer with 1 M NaCl).
5. Finally equilibrate with 5 to 10 column volumes of start buffer.
6. Apply the sample at 1 mL/min for HiTrap 1 mL and 5 mL/min for HiTrap 5 mL using a syringe fitted to the luer connector or by pumping it onto the column.
7. Wash with at least 5 column volumes of start buffer or until no material appears in the eluate.
8. Elute with 5 to 10 column volumes of elution buffer, see "Choice of gradient type".
9. The purified eluted fractions can be desalted using a HiTrap Desalting, HiPrep 26/10 Desalting or a PD-10

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column if necessary.
10. After completed elution, regenerate the column by washing with 5 column volumes of regeneration buffer (start buffer with 1 M NaCl) followed by 5 to 10 columns volumes of start buffer. The column is now ready for a new sample.

Pack size
5 × 1 mL
Maximum flow velocity
4 mL/min resp. 20 mL/min
Dimensions
7 × 25 mm
Column volume
1 mL
Column i.d.
7 mm
Column hardware pressure limit
0.5 MPa (5 bar,72.5 psi)
Functional group
-N+(CH3)3

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