HiTrap MabSelect SuRe

Product Information

Cat#No#	Hi-018P

Product Overview

HiTrap MabSelect SuRe columns are prepacked with MabSelect SuRe, a BioProcess resin for purification of monoclonal antibodies from large sample volumes. The novel alkali-tolerant recombinant Protein A ligand allow cleaning-in-place (CIP).

Characteristic

Withstands rigorous CIP and sanitization procedures with 0.1 to 0.5 M NaOH.
Novel ligand design gives enhanced protease resistance resulting in lower ligand leakage.
Oriented coupling of recombinant Protein A to the matrix via an engineered C-terminal cysteine enhances IgG binding capacity.
Fewer regulatory concerns due to the total absence of mammalian culture in the ligand production and purification.
Prepacked HiTrap columns for process development, screening of purification conditions, and small-scale purification of Mabs.

Maximum operating pressure

5 bar [0.5 MPa] (70 psi)

Matrix

Highly cross-linked agarose, spherical

Average particle size

~ 85 µm

Ligand

Alkali-tolerant, protein A (E. coli)

Coupling chemistry

Epoxy

Dynamic binding capacity

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CREATIVE BIOMART®
Chromatography

HiTrap MabSelect SuRe

~ 35 mg IgG/mL resin
Recommended flow rate
< 4 ml/min
Recommended column height
25 mm
Chemical stability
Stable to commonly used aqueous buffers.
pH working range
3 to 12
CIP stability
3 to 13.7
Temperature stability
2°C to 40°C
Binding buffer
20 mM sodium phosphate, 0.15 M NaCl, pH 7.2.
Elution buffer
0.1 M sodium citrate, pH 3.0 to 3.6.
Cleaning-in-place
1. Wash the column with 3 column volumes of binding buffer. 2. Wash with at least 2 column volumes of 0.1 to 0.5 M NaOH. Contact time 10 to 15 minutes. 3. Wash immediately with at least 5 column volumes of binding buffer.
Sanitization
1. Wash the column with 3 column volumes of binding buffer. 2. Equilibrate the column with 0.1 to 0.5 M NaOH. 3. Use a contact time of at least 15 minutes (see the note below).

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4. Wash immediately with at least 5 column volumes of binding buffer.

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

4 mL/min

Dimensions

7 × 25 mm

Column volume

1 mL

Column i.d.

7 mm

Column hardware pressure limit

0.5 MPa (5 bar)

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