

HiScreen MabSelect SuRe LX protein A column

Product Information

Cat#No# Hi-009P

Product Overview

The HiScreen MabSelect SuRe LX column uses protein A chromatography for antibody purification. This protein A column is prepacked with MabSelect SuRe LX affinity resin and is part of our process development platform. These packed columns are an excellent choice for method optimization and parameter screening for capture of monoclonal antibodies when a high dynamic binding capacity is needed.

Description

MabSelect SuRe LX is an alkali-stabilized, protein A-derived affinity medium with a binding capacity for monoclonal antibodies (MAbs) exceeding that of MabSelect SuRe at longer residence times. This special combination of high binding capacity plus alkaline stability gives manufacturers of MAbs many opportunities to improve process economics and product quality.

High dynamic binding capacity (DBC) helps users process feed from high-expression cell cultures with increased antibody titers in shorter time or with smaller chromatography unit operations. Enhanced alkaline stability means that regular cleaning-in-place (CIP) can be performed with cost-effective agents such as sodium hydroxide (NaOH) to prolong the medium's working lifetime.

Characteristic

The alkali-tolerant recombinant protein A ligand of MabSelect Sure LX allows clean-in-place (CIP) and the resin gives excellent dynamic binding capacity.

Prepacked, ready-to-use columns for convenient chromatography process development.

10 cm bed height of HiScreen columns is designed to allow method optimization and parameter screening.

Easily connected in series to achieve 20 cm bed height.

Small bed volume gives fast results and minimal sample/buffer consumption.

Reproducible results, scalable to BioProcess columns packed with the same chromatography resin using the same linear fluid velocity.

Maximum operating pressure

3 bar [0.3 MPa] (44 psi)

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Ligand Coupling Method

Single-point attachment

Matrix

Rigid, highly cross-linked agarose

Average particle size

85 µm

Ligand

Alkali-stabilized, protein A-derived (E. coli)

Coupling chemistry

Epoxy

Dynamic binding capacity

Approx 60 mg human IgG/ml medium at 6 min residence time.

Recommended flow rate

< 500 cm/h

Recommended column height

100 mm

Chemical stability

Stable in all aqueous buffers commonly used in protein A chromatography.

pH working range

3–12

CIP stability

3 to 13.7

Temperature stability

2°C to 40°C

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Storage

2 to 8°C, 20% Ethanol

Shipping

20% ethanol

Elution buffer

0.1 M sodium citrate, pH 3.0 to 3.6.

Cleaning-in-place

1. Wash the column with 3 column volumes (CV) of start buffer.
2. Wash with at least 2 CV 0.1 to 0.5 M NaOH with a contact time of 10 to 15 minutes.
3. Wash immediately with at least 5 CV start buffer at pH 7 to 8.

Pack size

1 × 4.7 mL

Maximum flow velocity

500 cm/h

Dimensions

7.7 × 100 mm

Column volume

4.7 ml

Column i.d.

7.7 mm

Column hardware pressure limit

0.8 MPa (8 bar)