

HiScreen MabSelect Prisma

Product Information

Cat#No# Hi-008P

Product Overview

This protein A column is prepacked with MabSelect Prisma chromatography resin. This affinity resin has been improved with an optimized high-flow agarose base matrix and a genetically engineered protein ligand, allowing efficient cleaning between runs. This allows future demands in monoclonal antibody purification to be met, including processing of many bispecific antibodies.

Description

MabSelect Prisma is a next-generation Protein A chromatography resin that offers significantly enhanced alkaline stability and binding capacity for improved process economy in monoclonal antibody (mAb) processing. The resin builds on the proven track record of MabSelect and MabSelect SuRe resins in commercial mAb production. In comparison with its predecessors, however, MabSelect Prisma has been improved with an optimized highflow agarose base matrix and a genetically engineered Protein A-derived ligand, allowing future demands in mAb processing to be met

Characteristic

Enhanced dynamic binding capacity compared with other protein A chromatography resins. Excellent alkaline stability enables efficient cleaning and sanitization using 0.5–1.0 M NaOH. Convenient method optimization and parameter screening enabled by the 10 cm bed height for efficient chromatography process development.

Maximum operating pressure

3 bar (0.3 MPa, 44 psi)

Ligand Coupling Method

Single point attachment

Matrix

Highly cross-linked agarose, spherical

Average particle size

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~ 60 μm

Ligand

Alkaline stabilized Protein A-derived (E. coli)

Coupling chemistry

Epoxy

Dynamic binding capacity

~ 80 mg human IgG/mL resin at 6 min residence time. ~ 40 mg human IgG/mL at 2 min residence time.

Recommended flow rate

< 600 cm/h

Recommended column height

100 mm

Chemical stability

Stable to commonly used aqueous buffers in Protein A chromatography.

pH working range

3–12

CIP stability

2–14

Temperature stability

2°C to 40°C

Storage

2°C to 8°C in 20% ethanol

Shipping

20% ethanol On request 2% benzyl alcohol (BnOH).

Cleaning-in-place

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1. Wash the column with 3 column volumes (CV) of start buffer.
2. Wash with 3 CV 0.5 to 1.0 M NaOH with a contact time of 15 minutes.
3. Wash immediately with at least 5 CV sterile and filtered start buffer at pH 7 to 8.

Pack size

1 × 4.7 mL

Maximum flow velocity

300 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)
