

HiTrap MabSelect VL protein L column

Product Information

Cat#No# Hi-023P

Product Overview

HiTrap chromatography columns with MabSelect VL protein L resin. A redesigned protein L ligand captures antibody Fabs, bispecifics, and other variants containing a kappa light chain with high binding capacity and improved alkaline stability.

Description

MabSelect VL affinity resin uses a protein L ligand with strong affinity for the variable region of a human antibody's kappa light chain. The resin offers high productivity and robust processes for affinity capture of bispecific antibodies and antibody fragments containing the kappa light chain and offers a good capture alternative for antibody variants that does not bind to protein A. This resin has substantially improved dynamic binding capacity (DBC) and alkaline stability compared to its predecessor, making it well suited for cost-efficient capture of antibody variants. MabSelect VL resin allows for good resolution of product-related impurities in the capture of bispecific antibodies, and it provides a tool for efficient purification of antibody variants to high purity.

Characteristic

High dynamic binding capacity for efficient capture of target molecules.

Stable when cleaned with 0.1 M NaOH, reducing risk for bioburden incidents.

Provides good resolution for product-related impurities in the capture of bispecific antibodies.

Maximum operating pressure

5 bar [0.5 MPa] (70 psi)

Ligand Coupling Method

Single point attachment

Matrix

Highly cross-linked agarose, spherical

Average particle size

HiTrap MabSelect VL protein L column

~ 60 µm

Ligand

Alkaline stabilized protein L-derived (E. coli)

Coupling chemistry

Epoxy

Dynamic binding capacity

70 mg human IgG/mL resin at 6 min residence time; ~ 60 mg human IgG /mL resin at 4 min residence time

Recommended flow rate

< 4 mL/min

Recommended column height

25 mm

Chemical stability

Stable in aqueous buffers commonly used in protein L chromatography.

pH working range

2 to 10

CIP stability

2 to 13 (recommended 0.1 M NaOH)

Shipping

20% ethanol or 2% benzyl alcohol (BnOH).

Pack size

1 × 1 mL

Maximum flow velocity

300 cm/h

Dimensions

HiTrap MabSelect VL protein L column

7 × 25 mm

Column volume

1 mL

Column i.d.

7 mm

Column hardware pressure limit

5 bar (0.5 MPa)
