

HiTrap LambdaFabSelect

Product Information

Cat#No# Hi-015P

Product Overview

LambdaFabSelect is an affinity chromatography resin, designed for the purification of lambda Fab fragments, with high binding capacity, purity, and yield.

Description

Antibody fragments are gaining increased attention as potential biopharmaceuticals because they display certain advantages over monoclonal antibodies (MAbs). For example, Fabs show improved pharmacokinetics for tissue penetration and can bind to targets inaccessible to conventional antigen binding sites.

LambdaFabSelect are affinity chromatography resins for purifying kappa and lambda Fab fragments, respectively. These resins enable efficient capture with high purity and yield.

Characteristic

Efficient, industrial-scale capture of Fabs by affinity chromatography.

High binding capacity for Fabs.

Rigid agarose base matrix allows high flow rates and processing of large sample volumes for increased throughput.

Non-mammalian derived product reduces regulatory concerns in the production of Fabs for clinical applications.

Low ligand leakage ensures increased Fab purity and productivity.

Maximum operating pressure

5 bar [0.5 MPa] (70 psi)

Matrix

Highly cross-linked agarose, spherical

Average particle size

75 µm

Ligand

HiTrap LambdaFabSelect

Recombinant protein (Mr 13 000), produced in *Saccharomyces cerevisiae*, that binds to the constant region of Fab kappa or lambda light chain.

Ligand density

Approx. 7 mg/mL resin.

Dynamic binding capacity

Approx. 20 mg Fab/mL resin.

Recommended flow rate

At least 600 cm/h in a 1 m diameter column, with 20 cm bed height at 20°C using buffers with the same viscosity as water at < 0.3 MPa (3 bar).

Recommended column height

25 mm

pH working range

3 to 10

CIP stability

2 to 12

Temperature stability

4°C to 30°C

Storage

4 to 8°C, 20% Ethanol

Pack size

5 × 1 mL