

HiTrap IXSelect

Product Information

Cat#No# Hi-078P

Product Overview

HiTrap IXSelect columns are prepacked with IXSelect resin for screening and small-scale protein purifications using affinity chromatography.

Description

IXSelect is an affinity chromatography resin designed for selective binding of coagulation Factor IX (FIX). The resin can be used, under mild elution conditions, for purifying FIX from plasma as well as from recombinant sources. IXSelect is part of Cytiva's Custom Designed Media program.

Characteristic

Efficient, industrial-scale purification of FIX by affinity chromatography.

High flow rates for processing of large sample volumes to increase throughput.

Reduced regulatory concerns (due to non-mammalian derived product) in the production of FIX for clinical applications.

Matrix

Highly cross-linked agarose, spherical

Average particle size

75 μ m

Ligand

Recombinant protein (Mr 13 151) produced in *Saccharomyces cerevisiae*.

Ligand density

Approx. 8 mg/mL resin

Dynamic binding capacity

Approx. 6 mg FIX/mL resin

Recommended flow rate

HiTrap IXSelect

Minimum 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)

pH working range

3 to 10

CIP stability

2 to 12

Storage

2–8°C

Elution buffer

20 mM Tris-HCl, 2 M MgCl₂, pH 7.4.

Binding

1. Pack the column with IXSelect.
2. Equilibrate with equilibration buffer.
3. Load the sample.
4. Wash with wash buffers 1 and 2.
5. Elute with elution buffer.
6. Regenerate the column with regeneration buffer.
7. Perform CIP.

Pack size

5 × 1 mL

Wash buffer

20 mM Tris-HCl, 500 mM NaCl, 0.01% Tween 80, pH 7.4.