

IXSelect

Product Information

Cat#No# IX-371C

Product Overview

IXSelect is a high-throughput resin specifically designed for the purification of factor IX targets from various feed streams.

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

Non-mammalian derived product reduces regulatory concerns.

Available in several different pack sizes facilitating small scale screening and large scale manufacturing.

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.

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.

Ligand Coupling Method

NHS

Matrix

Highly cross-linked agarose

Average particle size

~75 µm

Ligand

faktor IX ligand

IXSelect

Ligand density

>6.5 mg ligand/ml

Dynamic binding capacity

6 mg factor IX/mL

Recommended flow rate

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

3–10

CIP stability

2–12

Temperature stability

4°C to 30°C

Shelf life

3 years

Storage

2 to 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.

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6. Regenerate the column with regeneration buffer.

7. Perform CIP.

Equilibration

20 mM Tris-HCl, 150 mM NaCl, pH 7.4.

Cleaning-in-place

The recommended protocol comprises initial strip of the resin at low pH, and then subjecting the resin to NaOH of low concentration for cleaning.

Sanitization

PAB (120 mM phosphoric acid, 167 mM acetic acid, 2.2 % v/v benzyl alcohol) is used for final sanitization of the resin. PAB solution is sensitive to light and should be freshly made not to damage the resin. PAB solution should be stored in a dark bottle and kept no longer than for a week. PAB solution has a pH of < 2, and resin stability can be limited in prolonged exposure at such a low pH.

Pack size

25 mL

BioProcess resin

Yes

Wash buffer

20 mM Tris-HCl, 150 mM NaCl, pH 7.4; 20 mM Tris-HCl, 500 mM NaCl, 0.01% Tween 80, pH 7.4.
