CREATIVE BIOMART®
Chromatography

ECH-Lysine Sepharose 4 Fast Flow

Product Information

Cat#No#	EC-362C

Product Overview

ECH-Lysine Sepharose 4 Fast Flow is a group specific resin for isolation of plasminogen and plasminogen activator. It is based on highly crosslinked 4% agarose thus enabling rapid processing of large sample volumes

Description

ECH-Lysine Sepharose 4 Fast Flow is a group specific medium for isolation of plasminogen and plasminogen activator. It is based on highly crosslinked 4% agarose thus enabling rapid processing of large sample volumes. L-Lysine is covalently bound to a long hydrophilic spacer arm attached to Sepharose 4 Fast Flow via a stable ether linkage. ECH-Lysine Sepharose 4 Fast Flow was designed for industrial purification of plasminogen and plasminogen activator.

Maximum operating pressure

Base matrix: 150-250 cm/h, 100 kPa, XK 50/60 column, bed height 25 cm

Ligand Coupling Method

Amide linkage

Matrix

4% cross-linked agarose

Particle Size

45 µm-165 µm

Average particle size

~90 µm

Ligand

L-lysine

Ligand density

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ECH-Lysine Sepharose 4 Fast Flow

13–18 µmol Lysine/ml drained medium
Coupling chemistry
NHS
Dynamic binding capacity
> 1.5 mg Plasminogen/mL drained resin
Recommended flow rate
Base matrix: 150-250 cm/h, 100 kPa, XK 50/60 column, bed height 25 cm
Recommended column height
25 cm
Chemical stability
Stable to commonly used aqueous buffers: 1 M NaOH, 6 M guanidine hydrochloride.
pH working range
3–12
CIP stability
2–13
Storage
4 to 30°C, in 20% Ethanol and 0.05 M Sodium Acetate
Cleaning-in-place
Prolonged exposure, i.e., several days, to pH greater than 13 or lower than 2 should be avoided due to hydrolysis of the ligand at high pH and decomposition of the matrix at low pH. Strongly bound proteins can be removed with urea or guanidine hydrochloride.
Sanitization
Generally sodium hydroxide (0.1–1 M) alone or in combination with sodium chloride (0.5–3 M) or ethanol (20–70%) is an effective sanitization agent.

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ECH-Lysine Sepharose 4 Fast Flow

Pack size
500 mL
BioProcess resin
No

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