

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

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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Pack size

500 mL

BioProcess resin

No
