

Sepharose CL-4B

Product Information

Cat#No# Se-501C

Product Overview

Sepharose CL-4B is a well-proven cross-linked agarose size exclusion chromatography base matrix and is frequently used for coupling affinity ligands to the matrix. The matrix is not pre-activated and the user performs all steps in coupling.

Description

Sepharose is a spherical agarose-based size exclusion chromatography matrix. Sepharose is available with 3 different agarose contents; 2, 4, and 6%, designated Sepharose 2B, Sepharose 4B and Sepharose 6B respectively. Both Sepharose and Sepharose CL have broad fractionation ranges which makes them suitable for characterizing or cleaning-up samples containing components of diverse molecular weight.

Characteristic

4% cross-linked agarose size exclusion chromatography resins.

Proven base matrix for coupling affinity ligands.

Higher degree of crosslinking improve matrix stability.

Maximum operating pressure

80-150 cm/h, pressure drop cm H₂O/bed height=15, bed height 10 cm, column 5 cm i.d.

Matrix

cross-linked agarose, 4%, spherical

Recommended flow rate

< 26 cm/h

Recommended column height

10 cm

pH working range

3–13

Sepharose CL-4B

CIP stability

2–14

Autoclavable

Autoclavable, 20 min at 120°C in pH 7.

Storage

4 to 30°C, 20% Ethanol

Equilibration

Before applying the sample, equilibrate the column with at least two column volumes of the eluent to be used in the separation, or until the baseline is stable. Longer equilibration might be needed with detergent solutions. Equilibration is not needed between runs with the same eluent.

Regeneration

Regeneration is normally performed by washing with 2 to 3 column volumes of buffer, followed by re-equilibration in the new buffer (if changing conditions).

Sanitization

Wash the column with 0.5 M NaOH

Sterilization

Autoclavability 20 min at 120°C in phosphate buffer, pH 7.

Pack size

1 L
