

Sepharose 4B

Product Information

Cat#No# Se-497C

Product Overview

Sepharose 4B is a well-proven 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% Agarose size exclusion chromatography resin.
Proven base matrix for coupling affinity ligands.

Maximum operating pressure

70-140 cm/h, pressure drop cm H₂O/bed height=15, bed height 10 cm, column 5 cm i.d.

Matrix

agarose, 4%, spherical

Particle Size

45 µm-165 µm

Recommended flow rate

< 11.5 cm/h

Recommended column height

10 cm

Chemical stability

Sepharose 4B

Stable to commonly used aqueous buffers.

Physical stability

Negligible volume variation due to changes in pH or ionic strength.

pH working range

4–9

CIP stability

4–9

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