

Heparin-Sepharose Column

CATALOG #: 6554-1 1 ml
6554-5 5 ml

LOT #: _____

PREPARATION: Heparin-Sepharose is prepared by covalently coupling heparin to epoxy-activated 6% cross-linked sepharose beads. The coupling was optimized to give a high binding capacity and could be greater than 0.4 mg of heparin-binding protein (such as thrombin) per ml of wet gel.

CONTENTS: Ready-to-use pre-packed columns of 1 ml or 5 ml bead volume in 20 % Ethanol/dH₂O. > 2.5 mg heparin per ml Sepharose beads.

FEATURES: Heparin-beads have been widely used in affinity purification of various heparin-binding proteins or ligand, such as antithrombin III, lipoprotein, DNA binding proteins (transcription factors, virus coat proteins etc.) and other ligands. BioVision's Heparin-Sepharose is designed for the purpose of purification of these kinds of proteins and ligands. It can also be used as a high capacity cation exchange medium. Specific proteins can be separated by using different concentrations of salt or a salt gradient. This Heparin-Sepharose formulation exhibits excellent binding capacity, high flow rate, no significant loss of the heparin ligand and a pH stability range of 2-10.

APPLICATIONS: Purification of heparin-binding proteins, enzymes or other ligands.

STORAGE: Store at 4°C. Do not freeze. Stable, as supplied, for at least 1 year.

PROCEDURE EXAMPLE:

1. Equilibrate the column to room temperature.
2. Remove the upper (first) then lower cap and allow the preservative to drain by gravity flow.
3. Equilibrate the column with 5 – 10 bed volumes of degassed Binding Buffer.
4. Add sample in Binding Buffer and recycle through column 3-5 times.
5. Wash with 4 – 5 column volumes of Binding Buffer containing 0.5 M NaCl
6. Wash with at least 2 column volumes of Binding Buffer and ensure the effluent reaches the same Absorbance (280 nm) as the Binding Buffer.
7. Elute with the elution buffer.
8. Combine fractions with highest absorbance.
9. Regenerate the column by:
 - a. Washing with ~ 5 volumes 5M NaCl.
 - b. Equilibrate with 5 volumes of Binding Buffer containing 20% Ethanol in PBS/dH₂O.
 - c. Store upright at 4 °C.

BUFFER EXAMPLES:

- (1) **Binding Buffers:** 1 X PBS
- (2) **Elution Buffers:** 3 M NaCl in PBS

RELATED PRODUCTS:

Recombinant Protein G- Sepharose Column	Protein G Polyclonal Antibody
Recombinant Protein L- Sepharose Column	Protein A Polyclonal Antibody
Recombinant Protein A/G- Sepharose Column	Protein L Polyclonal Antibody
Recombinant Protein A/G/L- Sepharose Column	Protein G Magnetic Beads
Recombinant Protein A Sepharose Beads	Protein A Magnetic Beads
Recombinant Protein G Sepharose Beads	Protein L Magnetic Beads
Recombinant Protein L Sepharose Beads	Protein A/G Magnetic Beads
Recombinant Protein A/G Sepharose Beads	Protein A/G/L Magnetic Beads
Recombinant Protein A/G/L Sepharose Beads	

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