Protein A-Sepharose Column

CATALOG #: 6508-1 1 ml

6508-5 5 ml

LOT #: _____

PREPARATION: Protein A Sepharose is prepared by covalently coupling

recombinant Protein A to 6 % cross-linked sepharose beads. The coupling technique is optimized to give a high binding capacity for IgG. The capacity of IgG binding could be up to

25 mg of human IgG per ml of wet bead.

CONTENTS: Ready-to-use pre-packed columns of 1 ml or 5 ml bead

volume in 20 % ethanol/water; > 5 mg Protein A/ml

Sepharose beads.

FEATURES: High binding capacity (10 - 20 mg/ml of bead); High flow rate;

Low falling off of recombinant Protein A.

APPLICATIONS: Purification of monoclonal and polyclonal antibodies. Protein

A binds to most human and mouse IgG subclasses (e.g., human IgG1, IgG2, IgG4; mouse IgG1, IgG2a, IgG2b, IgG3). It also binds to total IgG from cow, guinea pig, hamster, horse, pig, and rabbit. Protein A has little affinity to chicken, goat, rat

and sheep.

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

year.

FOR RESEARCH USE ONLY! Not to be used on humans.

PROCEDURE EXAMPLE:

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- 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 15 20 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. Drain the column to the top frit. Elute with one bed volume of Elution Buffer buffer pH 3.0. Neutralize with 100 μ l of 1M Tris, pH 9.0 per ml of eluate. It is recommended to elute with another 1 2 ml of elution buffer and collect 100 μ l fractions (test for absorbance at 280 nm).
- Alternatively, one could add 6 ml Elution Buffer and collect 1 ml fractions into 1.5 ml tubes containing 100 μl of 1 M Tris, pH 9.0.
- 9. Combine fractions with highest absorbance (Remember to blank the spectrophotometer with a solution containing 100 μl 1 M Tris, pH 9.0 per ml of Elution Buffer).

Concentration of IgG (mg/ml) = (A280/1.38)

- 10. Regenerate the column by:
 - a. Washing with ~ 5 volumes of Elution Buffer.
 - p. Equilibrate with 5 volumes of Binding Buffer containing 20 % ethanol in water.
 - c. Store upright at 4 °C.

BUFFER EXAMPLES:

- (1) Binding Buffers: 25 mM sodium phosphate pH 7.2, 50 mM Tris, pH 7.2 or PBS, pH 7.2
- (2) Elution Buffers: 0.1 M glycine, pH 3.0 or 0.1 M citric acid, pH 2.75

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 Magentic Beads Protein A Magnetic Beads Recombinant Protein A Sepharose Beads Recombinant Protein G Sepharose Beads Protein L Magnetic Beads Recombinant Protein L Sepharose Beads Protein A/G Magentic Beads Recombinant Protein A/G Sepharose Beads Protein A/G/L Magnetic Beads Recombinant Protein A/G/L Sepharose Beads

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