Protein A/G/L-Sepharose

CATALOG #:

6541-1	1 ml
6541-5	5 ml
6541-25	25 ml
6541-100	100 ml
6541- 500	500 ml

PREPARATION: Protein A/G/L-Sepharose is prepared by covalently coupling recombinant Protein A/G/L (Cat.# 6540; containing five Ig-binding regions of protein L, five IgG binding domains from Protein A , and three Ig-binding regions of protein G. Cell wall binding regions, albumin binding regions and other non-specific binding regions have all been eliminated from the fusion protein to ensure the maximum specific IgG binding) to 6% cross-linked sepharose beads. The coupling technique is optimized to give a high binding capacity. The capacity of IgG binding could be greater than 10 mg of human IgG per ml of wet gel.

CONTENTS: Supplied as a 50% slurry in 20% Ethanol
>5 mg Protein A/G/L per ml of sepharose beads.

FEATURES: Protein A/G/L binds to all IgG subclasses from various mammalian species, including all IgGs that bind to Protein A, Protein G, and Protein L, individually, making it the ideal choice for purification of all kinds of polyclonal or monoclonal IgG antibodies. The binding capacity is greater than 10 mg/ml of gel; High flow rate; Low falling off of rProtein A/G/L; pH stability 2-10.

APPLICATIONS: Purification of monoclonal and polyclonal antibodies, Immunoprecipitation

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.

IgG PURIFICATION PROCEDURE EXAMPLE:

1. Wash column with ddH_2O to remove air bubbles.
2. Fill column with protein L beads.
3. Wash the column with 5X volume of Binding Buffer.
4. Dilute serum sample with Binding Buffer (1:1 ratio).
5. Invert the diluted serum sample to mix well. Make sure no bubbles in the solution.
6. Pour the solution onto the column.
7. Collect the solution and repeat step 6 & 7 for 10 times.
8. Wash the column 4 – 5 times with Binding Buffer containing 0.5 M NaCl
9. Wash the column 4 - 5 times with the Binding Buffer.
10. Add Elution Buffer to elute IgG (0.5-1 ml each time).
11. Collect the eluent using microcentrifuge tube.
12. Assay protein concentration and combine the fractions containing sufficient amount of IgG.
13. To regenerate/store column:
    a. Wash with 3 volumes of elution buffer.
    b. Wash with 3 volumes of distilled water.
    c. Store column in 20 % Ethanol/H2O.

Buffer Example:

Binding buffer: 0.05 M sodium borate, 0.15 M sodium chloride pH 8.0
Elution buffer: 0.1 M citric acid, pH 2.75

RELATED PRODUCTS:

- Recombinant Protein G & Sepharose Beads
- Recombinant Protein L & Sepharose Beads
- Recombinant Protein A/G & Sepharose Beads
- Recombinant Protein A/G/L & Sepharose Beads
- Protein A Polyclonal Antibody
- Protein G Polyclonal Antibody
- Protein L Polyclonal Antibody

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