

# Protein A-Sepharose

<b>CATALOG #:</b>	6501-1	1 ml
	6501-5	5 ml
	6501-25	25 ml
	6501-100	100 ml

**LOT #:** \_\_\_\_\_

**PREPARATION:** Protein A Sepharose is prepared by covalently coupling 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 gel.

**CONTENTS:** Supplied as a 50% slurry in 0.01% Thimerosal/H<sub>2</sub>O.  
>5mg Protein A/ml Sepharose beads.

**FEATURES:** High binding capacity (18-22 mg/ml of gel);  
High flow rate;  
Low falling off of rProtein 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.

**USAGE:** For Research Purpose Only! Not to be used in humans!

## Procedure Example:

1. Wash column with ddH<sub>2</sub>O to remove air bubbles.
2. Fill column with protein A 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 5-10 times with the Binding Buffer.
9. Add Elution Buffer to elute IgG (0.5-1 ml each time).
10. Collect the eluent using microcentrifuge tube.
11. Repeat step 9 & 10 for 10 times.
12. Assay protein concentration and combine the fractions containing sufficient amount of IgG.

## 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 A & Sepharose Beads  
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