

Protein G-Sepharose

CATALOG #:	6511-1	1 ml
	6511-5	5 ml
	6511-25	25 ml
	6511-100	100 ml

LOT #: _____

PREPARATION:

Protein G Sepharose is prepared by covalently coupling Recombinant Protein G (contains three IgG binding domain, BV catalog # 6510-10) to 6% crosslinked sepharose beads. The coupling technique is optimized to give a high binding capacity for IgG. 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 0.01% Thimerosal/H₂O.

FEATURES: Binding capacity of human IgG greater than 10 mg/ml of gel;
High flow rate;
Low falling off of rProtein G;
pH stability 2-10.

Note: Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse.

APPLICATIONS: Purification of monoclonal and polyclonal antibodies.

STORAGE: Store at 4°C. Do not freeze.

USAGE: For Research Purpose Only! Not to be used in human subjects!

Procedure Example:

1. Wash column with ddH₂O to remove air bubbles.
2. Fill column with protein G 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