Protein G Agarose

Protein Purification

Catalogue Number:

IR004	1 mL
IR004-10ML	10 mL

Description: Protein G Agarose consists of native protein G covalently coupled to agarose beads. The protein G molecule is very heat-resistant and retains its native conformation even after exposure to denaturing reagents (urea, guanidine thiocyanate or guanidine hydrochloride) and high concentration of salt (sodium chloride or potassium chloride). Protein G is designed specifically for the binding of the Fc region of immunoglobulin of many mammalian species without interfering with the binding ability of an antibody to its antigen.

Protein G Agarose has been extensively used for the isolation of a broad variety of immunoglobulin molecules generated from several mammalian species. The immobilized Protein G has relatively high affinity for the following antibody species and subclasses.

Monoclonal Antibody: Human: IgG1, IgG2, IgG3, IgG4; Rat: IgG2a, IgG2b, IgG2c; Mouse: IgG1, IgG2a, IgG2b, IgG3

Polyclonal Antibody: Human, Rabbit, Mouse, Guinea pig, Cow, Horse, Goat

Formulation and Specification:

- 50% Protein G agarose resin suspended in PBS containing 20% ethanol
- Ligand density: 2 mg Protein G per 1 mL beads
- Binding capacity: Up to 20 mg human IgG per 1 mL beads

Application: Protein purification, immunoprecipitation

Storage & Stability: Stable for a minimum of 1 year at 4-8°C.

Buffer Compatibility: Several buffers provided by MACGENE are compatible with Protein G Agarose

Wash/Binding Buffers:

Cat# MP011	TBS	50 mM Tris HCl, 150 mM NaCl, pH 7.4
Cat# MP011B	Binding Buffer	50 mM Tris HCl, 150 mM NaCl, pH 7.4
Cat# MP011T	TBS-T	50 mM Tris HCl, 150 mM NaCl, pH 7.4, 1% Triton X-100
Cat# MP011TC	Washing Buffer (5X)	Dilute to 1X before use
Cat# MP015	RIPA	RIPA Buffer
Cat# MP015M	RIPA(M)	RIPA Buffer, Modified

Elution Buffer:

Cat# MP005M	Protein Elution Buffer, pH3.5
Cat# MP005S	Protein Elution Buffer, pH1.8

M&C GENE TECHNOLOGY