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B E A D S • A B O V E T H E R E S T [™]

DESCRIPTION

BioMag[®] Protein A is a suspension of BioMag[®] particles approximately 1.5µm in size, which are covalently coated with Protein A. The suspension is supplied in a phosphate buffered saline (pH 7.5) with BSA, EDTA, and sodium azide added. After shaking vigorously or vortexing, BioMag[®] Protein A is ready to use.

CHARACTERISTICS

Mean Diameter: ~1.5µm
 Particle Concentration: 5 mg/mL
 Binding Capacity: 1mL (5mg) of BioMag[®] Protein A will bind 0.2mg of rabbit IgG

PROCEDURE

Researchers are advised to optimize the use of BioMag[®] in any application as procedures designed by other manufacturers may not be ideal.

BioMag[®] Protein A is suitable for use in binding immunoglobulins, as an effective adsorbant for removal of Fc fragments during Fab fragment preparation, and in immunoassay systems. Quick and convenient separations are accomplished magnetically.

Table 1: Protein A Affinities for Polyclonal Antibodies from Various Species

Species	Affinity for Protein A
Rabbit, Guinea Pig	++++
Human, Pig	+++
Horse, Cow, Mouse	++
Sheep, Rat	+/-
Hamster	+
Goat, Chicken	-

Table 2: Protein A Affinities for Various Monoclonal Antibodies

Antibody	Affinity for Protein A
Human IgG, IgG2, IgG4	++++
Human IgG3	-
Rat IgG1, IgG2a, IgG2b	-
Rat IgG2c	+
Mouse IgG1	+
Mouse IgG2a	++++
Mouse IgG2b	+++

STORAGE AND STABILITY

Store at 2-8°C. Freezing, drying, or centrifuging BioMag[®] may result in irreversible aggregation and loss of binding activity. Centrifugation may be used only if it is the last step in a procedure such that resuspension of the BioMag[®] is not required.

SAFETY

This particle suspension contains sodium azide. Sodium azide may react with lead and copper plumbing to form explosive metal azides. Upon disposal of material, flush with a large volume of water to prevent azide accumulation. Please consult the Material Safety Data Sheet for more information.

This product is for research use only and is not intended for use in humans or for *in vitro* diagnostic use.

ORDERING INFORMATION

Cat. Code	Description	Sizes
BM554	BioMag [®] Protein A	2mL or 10mL

RELATED PRODUCTS

Cat. Code	Description	Sizes
BP620	BioMag [®] Plus Protein A	2mL or 10mL
BP614	BioMag [®] Plus Protein A Antibody Isolation Kit	1 kit

For more information regarding Protein A and the Protein A Antibody Isolation Kit, including additional binding capacities and a protocol, please refer to Product Data Sheet #620, *BioMag[®]Plus Protein A or G* & *BioMag[®]Plus Protein A or G Antibody Isolation Kit*.

Order online anytime at www.bangslabs.com.