

BioMag® Protein A

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 EDTA and sodium azide added. After shaking vigorously or vortexing, BioMag Protein A is ready to use.

Characteristics

Mean Diameter: ~1.6µm
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 ₁ , IgG ₂ , IgG ₄	++++
Human IgG ₃	-
Rat IgG ₁ , IgG _{2a} , IgG _{2b}	-
Rat IgG _{2c}	+
Mouse IgG ₁	+
Mouse IgG _{2a}	++++
Mouse IgG _{2b}	+++

Storage and Stability

Store at 4°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. #	Description	Size
84600-2	BioMag® Protein A	2ml
84600-10	BioMag® Protein A	10ml

To Order

In The U.S. Call: 1-800-523-2575 • 215-343-6484

In The U.S. FAX: 1-800-343-3291 • 215-343-0214

In Germany Call: (49) 6221-765767

In Germany FAX: (49) 6221-764620

Order online anytime at www.polysciences.com.

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