



BioMag[®] Streptavidin

BioMag[®] suspensions are a series of products containing superparamagnetic particles. BioMag particles are irregularly shaped, with an average diameter of 1.6 μm , and consist of an iron oxide core with a silane coating. The surface of the particle is coated with amine or carboxyl groups, facilitating the covalent attachment of proteins, glycoproteins, secondary antibodies, and other ligands, with retention of biological activity. The particles' irregular shape provides a large surface area, ensuring a high binding efficiency.

BioMag particles are superparamagnetic — they respond to magnetic fields but do not retain magnetic properties upon removal of the magnetic field. This inability to become magnetized permits magnetic extraction without magnetically induced aggregation. Rapid and efficient removal of BioMag particles from suspension is achieved by the application of an external magnetic field.

Specifications

Form	Magnetic particle suspension (5 mg/ml) in phosphate-buffered saline containing EDTA and 0.08% sodium azide.
BioMag concentration	5 mg/ml
Binding capacity	1 ml (5 mg) Streptavidin binds >2.0 μg biotin per milligram of particles.
Storage and stability	BioMag Streptavidin can be stored at 2–8°C until the expiration date. Do not freeze. Do not dry. Centrifugation should only be used if it is the last step of a procedure, i.e., if resuspension of the BioMag particles is not required. Freezing, drying, and centrifugation result in extensive aggregation of the BioMag particles and a loss of binding activity.
Safety information	When working with chemicals always wear a suitable lab coat, disposable gloves, and protective goggles. For more information please consult the appropriate material safety data sheet, available online at www.qiagen.com/ts/msds.asp

Applications

BioMag Streptavidin preparations are standard BioMag particles coated with streptavidin and are highly suited for use in DNA probe assays, mRNA isolation, or for rapid separation of a biotinylated component from solution. They are also well suited for use in enzyme immunoassays and cell sorting. Please contact QIAGEN Technical Services for more information on cell separation protocols for BioMag Streptavidin.

Ordering Information

Product	Contents	Cat. No.
BioMag Streptavidin (5 ml)	BioMag Streptavidin suspension (5 mg/ml)	311711
BioMag Streptavidin (50 ml)	BioMag Streptavidin suspension (5 mg/ml)	311714
Accessories		
Single Tube Magnet	Magnet for separating magnetic particles in a 1.5 ml or 2 ml tube	36910
12-Tube Magnet	Magnet for separating magnetic particles in 12 x 1.5 ml or 2 ml tubes	36912
15 ml/50 ml Tube Magnet	Magnet for separating magnetic particles in 5 x 15 ml and 3 x 50 ml tubes	36935
Flask Magnet	Magnet for separating magnetic particles in a cell culture flask	36937

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