

MonoMag Streptavidin Magnetic Beads

DESCRIPTION

Ocean NanoTech's MonoMag Streptavidin Beads are hydrophilic magnetic beads with a monolayer of streptavidin that is covalently coupled to their surface makes most of the biotin binding sites sterically available for binding of biotinylated nucleic acids, antibodies, or other biotinylated ligands and targets. MonoMag Streptavidin Beads have a very wide variety of applications. The applications include assay development, DNA templates preparation, nucleic acids, protein isolation & cell isolation, large DNA fragments immobilization, sequencing products purification.

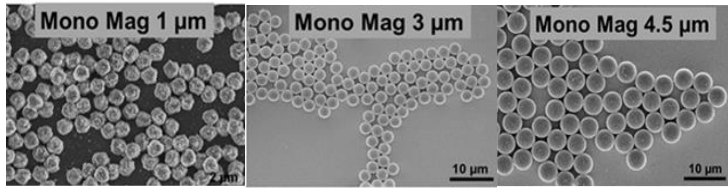
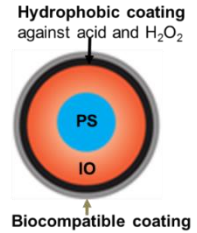


Figure 1: TEM Images of MonoMag Beads

FEATURES

- **High capacity:** >30 µg biotinylated BSA or IgG / mg beads (MV1000).
- **Narrow size distribution:** CV ≤ 5%.
- **Low non-specific binding:** stable, pre-blocked beads provide clean purification products without interference from the non-specific binding of complex samples.
- **Size flexibility:** we offer sizes ranged from 1 µm to 4.5 µm.

SPECIFICATION

- **Concentration:** 10 mg/mL
- **Storage buffer:** 10mM PBS, 0.05% NaN₃, 0.01% tween 20, 0.1% BSA, pH 7.4
- **Size:** 1 µm – 4.5 µm

STORAGE & USAGE

Store at 2-8°C. Freezing of particles may result in irreversible aggregation and loss of binding activity.

Ensure the suspension is well dispersed prior to use, bath sonication is strongly recommended, as particles are expected to settle during storage.

AVAILABLE PRODUCTS

Catalog	Product Description	Size	Unit size
MV1000-020	MonoMag Streptavidin Beads	1 µm	2 mL
MV1000-010	MonoMag Streptavidin Beads	1 µm	10 mL
MV1000-100	MonoMag Streptavidin Beads	1 µm	100 mL
MV3000-002	MonoMag Streptavidin Beads	3 µm	2 mL
MV3000-010	MonoMag Streptavidin Beads	3 µm	10 mL
MV3000-100	MonoMag Streptavidin Beads	3 µm	100 mL
MV4500-002	MonoMag Streptavidin Beads	4.5 µm	2 mL
MV4500-010	MonoMag Streptavidin Beads	4.5 µm	10 mL
MV4500-100	MonoMag Streptavidin Beads	4.5 µm	100 mL

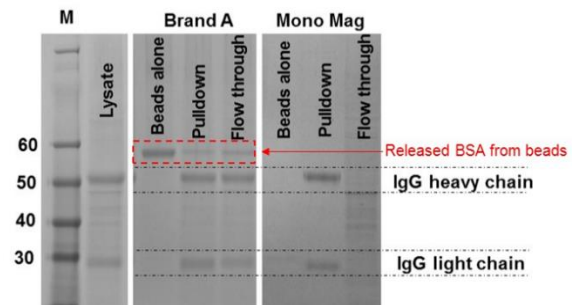


Figure 1. Pull-down of biotinylated IgG spiked in cell lysate with Ocean's 1 µm MonoMag Streptavidin Beads.

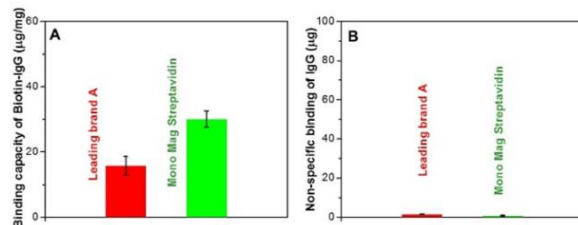


Figure 2. Higher binding capacity and low non-specific binding with Ocean's 1 µm MonoMag streptavidin