

MonoMag Maleimide Beads

DESCRIPTION

Ocean NanoTech's MonoMag Maleimide activated magnetic beads are the uniform, superparamagnetic beads with a layer of biocompatible polymer coating. Maleimide activated magnetic beads could react with thiol groups from targeted protein or ligands in a simple mix-and-go format, once the covalent bond is formed, the stable linkage could prevent protein or ligand leaching from the surface. Maleimide activated magnetic beads are ideal for isolation of small components such as proteins and peptides, immobilization of thiol modified labile proteins/peptides, and nucleic acid. Ideal for immunoprecipitation/purification of proteins and protein complexes, coupling functional enzymes to the bead surface for downstream assays, and identifying protein binding partners. Captured proteins and protein complexes are easily separated, washed, and eluted.

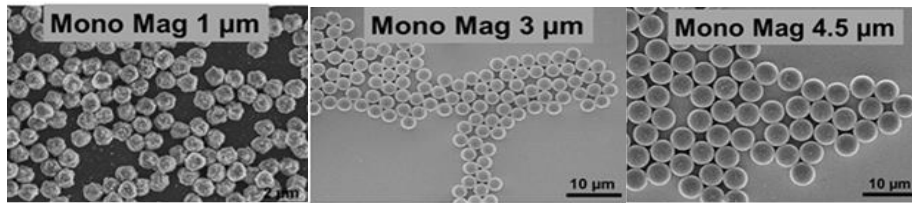


Figure 1. TEM Images of MonoMag Beads

FEATURES

- **Ready-to-use:** No more activation step is required.
- **Significantly low non-specific binding:** Proprietary biocompatible polymer coating.
- **High binding capacity:** High density of functional groups to ensure high binding capacity.
- **High iron content:** 30% - 60% depending on the size.
- **Size flexibility:** 1 µm – 4.5 µm
- **Narrow size distribution:** CV ≤ 5%.

SPECIFICATION

- **Form:** lyophilized powder
- **Weight percentage:** 5%
- **Surface group:** NHS Ester
- **Size:** 1 µm – 4.5 µm

STORAGE & USAGE

Store at -20°C. Avoid frequently opening sample, that may result in loss of binding activity.

Ensure the suspension is well dispersed prior to use, bath sonication is strongly recommended.

AVAILABLE PRODUCTS

Catalog	Product Description	Size	Unit size
MM1000-10	MonoMag Maleimide Beads	1 µm	10 mg
MM3000-50	MonoMag Maleimide Beads	3 µm	50 mg
MM4500-50	MonoMag Maleimide Beads	4.5 µm	50 mg

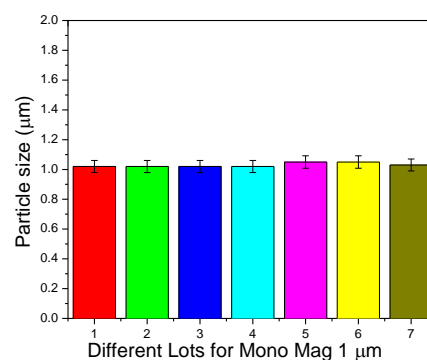


Figure 2: Size variation of 7 different lots of MonoMag 1 µm