Product Data Sheet

MonoMag Amine Magnetic Beads

DESCRIPTION

Ocean NanoTech's MonoMag Amine functionalized magnetic beads are the uniform, superparamagnetic beads with a layer of biocompatible polymer coating. The outer layer of our biocompatible coating makes them an ideal platform for ligands immobilization with significantly low non-specific binding.

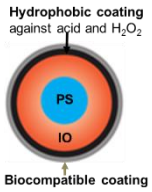
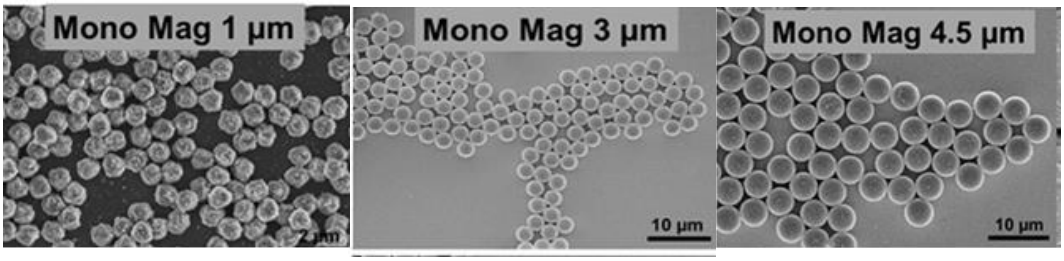


Figure 1. TEM image of MonoMag Magnetic Beads



FEATURES

- **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

- **Concentration:** 10 mg/mL (1 µm); 30 mg/mL (3 and 4.5 µm)
- **Storage buffer:** DI water, 0.05% NaN_3, 0.01% tween 20
- **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
MA1000-02	MonoMag Amine Beads	1 µm	2 mL
MA1000-10	MonoMag Amine Beads	1 µm	10 mL
MA1000-50	MonoMag Amine Beads	1 µm	50 mL
MA3000-20	MonoMag Amine Beads	3 µm	2 mL
MA3000-20	MonoMag Amine Beads	3 µm	10 mL
MA3000-50	MonoMag Amine Beads	3 µm	50 mL
MA4500-02	MonoMag Amine Beads	4.5 µm	2 mL
MA4500-10	MonoMag Amine Beads	4.5 µm	10 mL
MA4500-50	MonoMag Amine Beads	4.5 µm	50 mL

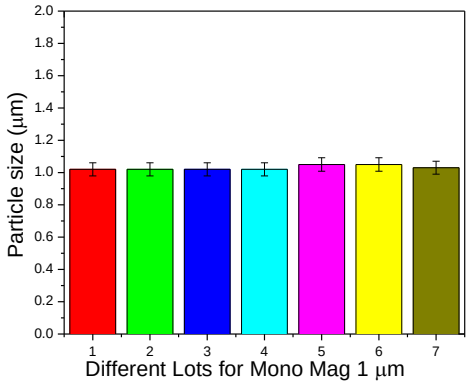


Figure 2. Sizes of MonoMag 1 µm from 7 different lots