

DESCRIPTION

Meet Magnefy™, our ~1µm high-performance superparamagnetic microspheres. As high surface area / high surface titer microparticles with a rapid separation profile, Magnefy offer a performance-driven solid phase for magnetic particle-based applications, including SPRI-based total DNA isolation (COOH), and molecular- and immunoassays.

Magnefy particles comprise a synergistic system featuring ~1µm spheroid particles with tremendous surface area for assays and isolations. The Magnefy system offers uniform magnetic separations, and is scaleable and automation-friendly. COOH and streptavidin surface functionalities are available.

CHARACTERISTICS

Mean Diameter:	~1µm
Functionality / Surface:	COOH, ~500µeq/g microspheres SA, ~5µg biotin-FITC/mg microspheres
Concentration:	COOH, 5% solids: (50mg/mL) in DI water + 0.05%NaN ₃ SA, 1% solids: (10mg/mL) 50mM Tris + 150mM NaCl + ~0.2% Stabilizers + 0.05% NaN ₃
Magnetite:	~40%

STORAGE AND STABILITY

Store at 2-8°C. Freezing of particles may result in irreversible aggregation and loss of binding activity. Ensure that the suspension is well dispersed prior to use, as particles are expected to settle during storage.

SAFETY

Particle suspensions contain 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 Safety Data Sheet for more information.

RELATED LITERATURE

- Magnefy™ New Product Development: Magnetic Particle Characterization & QC
- Nucleic Acid Isolations & Assays Brochure

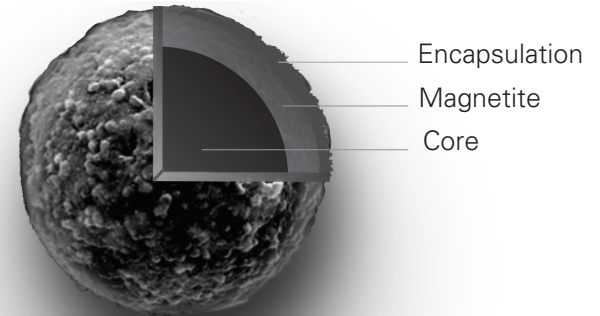
This product is for research use only and is not intended for use in humans or for *in vitro* diagnostic use.

ORDERING INFORMATION

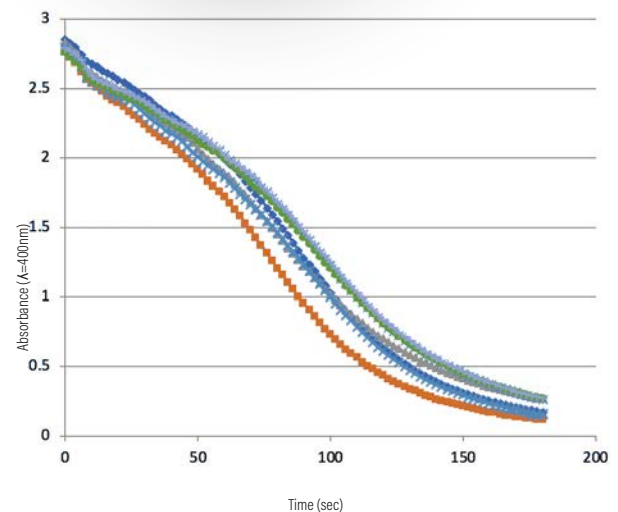
Cat. Code	Description	Size
MFY0002	Magnefy™ COOH	5, 10, 25 or 100mL
MFYS1N	Magnefy™ Streptavidin	1mL, 2mL, 5mL, 10mL

TRADEMARKS

Magnefy™ is a trademark of Bangs Laboratories, Inc.



Magnetic separation in Magnefy COOH



SPRI-based DNA isolation using Magnefy COOH

