

BcMag™ Silica-Modified Magnetic Beads

BcMag™ silica-modified Magnetic Beads are uniform superparamagnetic 1 μm or 5 μm diameter magnetic iron oxide particles coated with silica. The surface of silica-modified magnetic beads can be chemically modified to carry different functional groups for other applications. The beads may also be used to purify DNA or RNA under high concentration of chaotropic salts.



Product Specificities	
Composition	Silica-coated iron oxide magnetic beads
Bead Size	~1 μm diameter; ~5 μm diameter
Number of Beads	~1.7 x 10 ⁸ beads (1 μm beads) /mg; ~5 x 10 ⁷ beads (5 μm beads) /mg
Surface Area	~100 m ² /g
Stability	pH 4-10; Temperature: 4°C -140°C; Most organic solvents
Magnetization	~40-45 EMU/g
Type of Magnetization	Superparamagnetic
Effective Density	2.5 g/ml
Concentration	40 mg/ml in d ₂ H ₂ O
Storage	Store at 4°C upon receipt.