Absolute Mag™ Carboxyl Magnetic Nanoparticles, Cross-linked Dextran Coated, 300 nm

Cat.No: WHM-G089

DESCRIPTION

Description	Absolute Mag™ Carboxyl Magnetic Nanoparticles, Cross-linked Dextran Coated, 300 nm (# WHM-G089) are synthesized as a core of magnetite and coated with cross-linked dextran shell. These nanoparticles are designed with carboxylic acid groups on the surface for the covalent binding of proteins, antibodies or other molecules by carbodiimide chemistry. These magnetic nanoparticles are cluster-typed shaped and can be separated with a permanent magnet. Polydispersity index: < 0.2.

PRODUCT INFORMATION

Polydispersity Index	< 0.2
Particle Size	300 nm
Functional Group	Carboxyl
Surface Coating	Crosslinked Dextran
Concentration	10 mg/mL
Number of Particles	2.8E+11 particles/mL
Surface Group Density	2 μmol/g
Density	2.5 g/ccm
Magnetization	47 Am2/kg iron (H = 80 kA/m)
Saturation Magnetization	>70 Am2/kg iron (H> 800 kA/m)
Coercive Field Hc	0.451 kA/m

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STORAGE AND SHIPPING

Storage Buffer	Suspension in water.
Stability	Stable in aqueous buffers pH> 4. Not stable in organic solvents, acidic solutions pH < 4.
Storage	Storage at 2 - 8 °C for 6 months.
Shelf Life	When stored as specified the product is stable for six months.

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