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

Cat.No: WHM-G090

DESCRIPTION

Description	Absolute Mag™ Streptavidin Magnetic Nanoparticles, Cross-linked Dextran Coated, 300 nm (# WHM-G090) are synthesized as a core of magnetite and coated with cross-linked dextran shell.These nanoparticles are designed with covalently bound streptavidin on the surface for binding of biotinylated molecules with a high affinity. 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
Ligand	Streptavidin
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 PBS (0.02 % sodium azide).
Stability	Stable in aqueous buffers pH> 4. Not stable in organic solvents, acidic solutions pH < 4.
Storage	Storage at 2 - 8 °C for 3 months.
Shelf Life	When stored as specified the product is stable for three months.

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