Absolute Mag™ BSA Magnetic Nanoparticles, Dextran Coated, 130 nm

Cat.No: WHM-G021

DESCRIPTION

Description	Absolute Mag™ BSA Magnetic Nanoparticles, Dextran Coated, 130 nm (# WHM-G021) are synthesized as a core of magnetite and coated with dextran shell. These nanoparticles are designed with covalently bound albumin (BSA) on the surface. 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	130 nm
Ligand	Albumin (BSA)
Surface Coating	Dextran
Concentration	10 mg/mL
Number of Particles	3.5E+12 particles/mL
Binding Capacity	1.5-2.0 μg albumin (BSA)/mg particle (50-60 molecules albumin per particle)
Surface Group Density	1.5 - 2.0 μg albumin (BSA)/mg particles (50 -60 molecules albumin per particle)
Density	2.5 g/ccm
Magnetization	53 Am2/kg iron (H = 80 kA/m)
Saturation Magnetization	>75 Am2/kg iron (H> 800 kA/m)
Coercive Field Hc	0.444 kA/m

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@cd-bioparticles.com
Tel: 1-631-633-6938 Fax: 1-631-938-8221

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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