Absolute Mag™ PEG 300 Magnetic Nanoparticles, Dextran Coated, 130 nm

Cat.No: WHM-G024

DESCRIPTION

Description	Absolute Mag™ PEG 300 Magnetic Nanoparticles, Dextran Coated, 130 nm (# WHM-G024) are synthesized as a core of magnetite and coated with dextran shell. These nanoparticles are designed with covalently bound polyethylene glycol (PEG 300). The nanoparticles are also available with other PEG-lengths on request. 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
Functional Group	N/A
Surface Coating	PEG
Concentration	10 mg/mL
Number of Particles	3.5E+12 particles/mL
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

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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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