# Absolute Mag™ PEG-NH2 Magnetic Nanoparticles, Dextran Coated, 250 nm

Cat.No: WHM-G040

## DESCRIPTION

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| **Description** | Absolute Mag™ PEG-NH2 Magnetic Nanoparticles, Dextran Coated, 250 nm (# WHM-G040) are synthesized as a core of magnetite and coated with dextran shell. These nanoparticles are designed with PEG-NH2 groups on the surface for the covalent binding of proteins, antibodies or other molecules by glutaraldehyde activation. These magnetic nanoparticles are cluster-typed shaped and can be separated with a permanent magnet. Polydispersity index: < 0.2. |

## PRODUCT INFORMATION

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| **Polydispersity Index** | < 0.2 |
| **Particle Size** | 250 nm |
| **Functional Group** | Amine |
| **Surface Coating** | Dextran |
| **Concentration** | 10 mg/mL |
| **Number of Particles** | 4.9E+11 particles/mL |
| **Density** | 2.5 g/ccm |
| **Magnetization** | 43 Am2/kg iron (H = 80 kA/m) |
| **Saturation Magnetization** | >63 Am2/kg iron (H> 800 kA/m) |
| **Coercive Field Hc** | 0.469 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

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| **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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