

# Absolute Mag™ PEG-NH2 Magnetic Polystyrene Particles, 3 µm

Cat.No: WHM-G130

## DESCRIPTION

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Absolute Mag™ PEG-NH2 Magnetic Polystyrene Particles, 3 µm (# WHM-G130) are monodisperse magnetic particles, consisting of magnetite around an organic matrix of a polystyrene polymer, and finally coated with a polymer layer for the encapsulation of magnetite. These particles are designed with PEG-NH2 groups on the surface for the covalent binding of proteins, antibodies or other molecules by glutaraldehyde activation. These magnetic particles can easily be separated with a conventional permanent magnet. Standard deviation: < 5 % (C.V.).

## PRODUCT INFORMATION

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| Particle Size            | 3 µm                                              |
| Functional Group         | Amine                                             |
| Concentration            | 50 mg/mL                                          |
| Number of Particles      | 3.2E+9 particles/mL                               |
| Matrix                   | Polystyrene                                       |
| Density                  | 1.1 g/ccm                                         |
| Magnetization            | 5.4 Am <sup>2</sup> /kg particles (H = 80 kA/m)   |
| Saturation Magnetization | > 6.6 Am <sup>2</sup> /kg particles (H> 800 kA/m) |

## STORAGE AND SHIPPING

|                |                      |
|----------------|----------------------|
| Storage Buffer | Suspension in water. |
|----------------|----------------------|

|                   |                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>  | Stable in aqueous buffers, methanol, ethanol, DMSO. Not stable in halogenated hydrocarbons, toluene, strong acidic solutions, e.g. 10% HCl<br>. |
| <b>Storage</b>    | Storage at 2 - 8 °C for 6 months.                                                                                                               |
| <b>Shelf Life</b> | When stored as specified the product is stable for six months.                                                                                  |