



## **Dextran-coated Magnetic Nanoparticles-COOH**

### **PRODUCT DATA SHEET**

## **Dextran-coated Magnetic Nanoparticles-COOH**

### **Description**

Dextran modified magnetic nanoparticles have excellent biocompatibility, anti-nonspecific adsorption and biomolecular remodification ability. Dextran modified magnetic nanoparticles can be covalently coupled with specific targeted recognition molecules (such as antibodies, aptamers, targeting peptides, etc.) to construct targeted nanoprobes, which can be used in biomedical fields such as magnetic targeting, magnetic thermotherapy, and cell sorting.

Abvigen offers high quality dextran modified magnetic nanoparticles. The product has high repeatability between batches, which can meet the needs of various customers for personalized materials such as research and development, testing and production.

For custom sizes, formulations or bulk quantities please contact our customer service department.

**Website:** [www.abvigen.com](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)

### **Characteristics**

Type: Dextran-coated Magnetic Nanoparticles-COOH

Particle size: 10 nm, 20 nm, 30 nm, 40 nm, 50 nm

Surface: -COOH

Dispersing solvent: Purified water

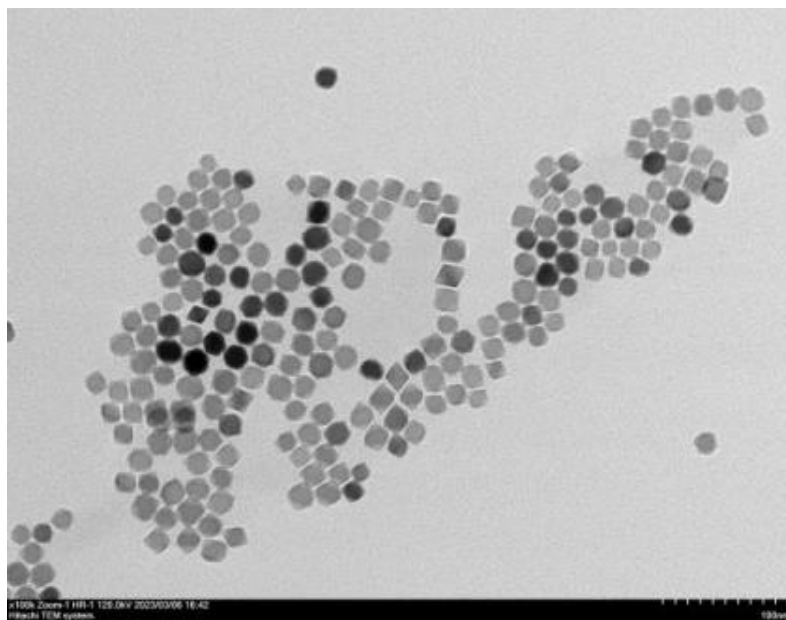
Concentration: 1 mg/mL

Size: 2.5/5/10 mL

Storage condition: Store sealed at 2~8°C.

Package: Glass bottle

### TEM of Dextran-coated Magnetic Nanoparticles-COOH (20 nm)



### Hydrodynamic Dimensions and Zeta Potential

Taking 20 nm dextran-modified magnetic nanoparticles as an example, the hydrodynamic size (Number) is less than 100 nm, and the Zeta potential is less than -25 mV.

### Saturation magnetization

Dextran modified magnetic nanoparticles are superparamagnetic nanoparticles with saturation magnetization of not less than 50 emu/g Fe.

### Advantages

- Excellent biocompatibility
- Excellent anti-nonspecific adsorption
- Excellent biomolecular remodification ability

### Applications

- Magnetic targeting
- Magnetic hyperthermia
- Cell sorting



### **Storage**

It should be sealed stored at 2~8°C.

### **Notes**

1. Mix well before use;
2. Avoid freezing and thawing during use and storage.

### **Ordering Information**

Website: [www.abvigen.com](http://www.abvigen.com)

Phone: +1 929-202-3014

Email: [info@abvigenus.com](mailto:info@abvigenus.com)