



## Dextran Coated Fe<sub>3</sub>O<sub>4</sub> Nanoparticles, 20 nm-COOH

### PRODUCT DATA SHEET

## Dextran Coated Fe<sub>3</sub>O<sub>4</sub> Nanoparticles, 20 nm-COOH

### Description

Fe<sub>3</sub>O<sub>4</sub> nanoparticles have excellent magnetic properties, including high saturation magnetization and coercivity, which makes it have a wide range of applications in the fields of magnetism, biomedicine, magnetic recording and magnetic fluids. The surface of Fe<sub>3</sub>O<sub>4</sub> nanoparticles with a particle size of 20 nm has active groups, which are suitable for covalent bonding with proteins (antibodies, streptavidin, protein A, G, etc.) or other biological molecules (biotin, glutathione). In addition, dextran modified Fe<sub>3</sub>O<sub>4</sub> nanoparticles have the characteristics of superparamagnetism and magnetic conductivity. This type of magnetic nanoparticle is separated by magnetic separation column, simple operation, excellent suspension stability in different buffer solutions, and can effectively ensure efficient coupling of antibodies and high anti-non-specific adsorption, as well as reaction uniformity and detection consistency. Suitable for magnetic targeting, magnetic hyperthermia, T2-weighted imaging, cell sorting and other biomedical fields.

Abvigen offers high quality dextran modified Fe<sub>3</sub>O<sub>4</sub> 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 Fe<sub>3</sub>O<sub>4</sub> Nanoparticles, 20 nm-COOH

Particle size: 20 nm

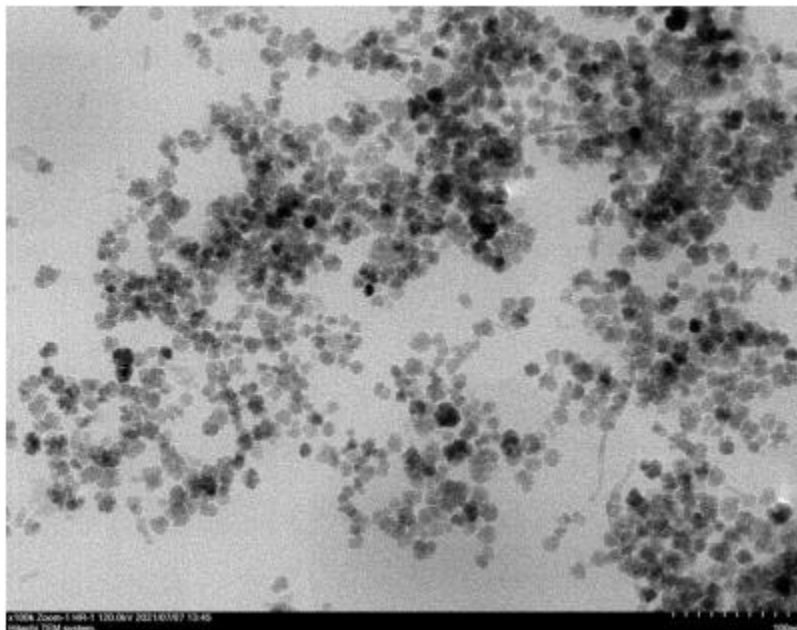
Surface group: -COOH

Dispersing solvent: Ultrapure water

Concentration: 4 mg/mL

Size: 1/5/10 mL

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

**TEM of Dextran Coated  $\text{Fe}_3\text{O}_4$  Nanoparticles, 20 nm-COOH****Advantages**

Superparamagnetism

Magnetic conductivity

Excellent suspension stability

**Applications**

Magnetic targeting

Magnetic hyperthermia

T2-weighted imaging

Cell sorting

**Storage**

Store sealed at 2-8°C.

**Note**

Freeze-thaw of dextran modified  $\text{Fe}_3\text{O}_4$  nanoparticles should be avoided during use and preservation.



## Ordering Information

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

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