



## Plain Iron Oxide Nanoparticles PRODUCT DATA SHEET

### Plain Iron Oxide Nanoparticles

#### Description

Iron Oxide Nanoparticles are superparamagnetic particles with excellent chemical stability and biocompatibility. Compared with traditional materials, Iron Oxide Nanoparticles have a better specific surface area and stronger binding ability, making them suitable for biomedical applications Chemical Catalyst、Molecular drug delivery and other aspects.

Abvigen Inc can provide high-quality Plain Iron Oxide Nanoparticles (5 nm - 500 nm) with uniform particle size and good chemical stability, which can meet various personalized material needs such as customer research and development, testing, and production consumption.

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

Diameter: 5 nm - 500 nm

Size: 2 ml; 10 ml

Concentration: 5 mg/ml

Composition: Iron Oxide Nanoparticles

Surface: N/A

Shape: Spherical

Buffer: PBS

Density: 5.18 g/ccm

Standard deviation: CV<5%

Store: Storage at 2 - 8 °C

1378 US-206 Ste 6-126, Skillman, NJ USA

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

Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Reserved

Email:

© Abvigen Inc All Rights



## Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

### For 5 mg/ml of Plain Iron Oxide Nanoparticles

Diameter	Conc. mg/ml	Particles/mg	Particles/ml	Diameter	Conc. mg/ml	Particles/mg	Particles/ml
5 nm	5	2.95E+15	1.47E+16	100 nm	5	3.69E+11	1.84E+12
10 nm	5	3.69E+14	1.84E+15	200 nm	5	4.61E+10	2.30E+11
15 nm	5	1.09E+14	5.46E+14	300 nm	5	1.37E+10	6.83E+10
20 nm	5	4.61E+13	2.30E+14	400 nm	5	5.76E+09	2.88E+10
25 nm	5	1.09E+14	5.46E+14	500 nm	5	2.95E+09	1.47E+10
30 nm	5	1.37E+13	6.83E+13				

## Advantages

Higher specific surface area

Uniform particle size

Good magnetism

Good biocompatibility

Strong chemical stability

## Applications

Materials and Chemical Engineering

Catalyst or catalyst support

Electrode material

Drug delivery and bioimaging

Water treatment and air purification

Magnetic resonance imaging

1378 US-206 Ste 6-126, Skillman, NJ USA

info@abvigenus.com

Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Reserved

Email:

© Abvigen Inc All Rights



## Ordering Information

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

Phone: +1 929-202-3014

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

1378 US-206 Ste 6-126, Skillman, NJ USA

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

Tel: 1-816-388-0112 Fax: 1-888-616-0161

Reserved

Email:

© Abvigen Inc All Rights