Product Data Sheet

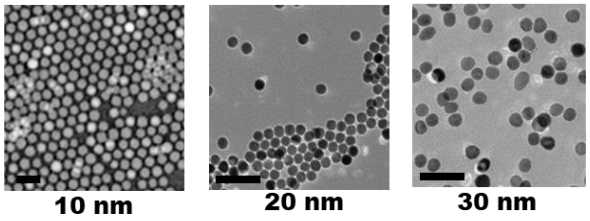
Streptavidin Iron Oxide Nanoparticles

DESCRIPTION

Ocean NanoTech's iron oxide nanoparticles are superparamagnetic particles with excellent colloidal stability and biocompatible coating for biomedical applications, including in-vivo magnetic resonance imaging (MRI), magnetic particles imaging (MPI), magnetic sensing for in-vitro diagnostics, small molecular drug delivery, immunotherapy, hyperthermia, adjuvant for vaccine, etc. Streptavidin iron oxide nanoparticles are nanosized (5-30 nm) iron oxide particles with streptavidin groups. Biotinylated nucleic acids, antibodies, or other biotinylated ligands and targets can be easily labeled onto the iron oxide nanoparticles. With excellent colloidal stability and unique surface coating, the streptavidin iron oxide nanoparticles exhibit high binding capacity and low non-specific binding.

FEATURES

- Narrow size distribution
- High colloidal stability
- Low non-specific binding
- Easy purification approaches developed
- High affinity for mono-biotinylated biomolecules
- Size offered: 10 nm, 20 nm and 30 nm



SPECIFICATION

- **Zeta potential:** from -10 mV to -30 mV
- **Concentration:** 1 mg/mL
- **Storage buffer:** 10 mM PBS buffer (pH 7.4), 0.01% BSA and 0.02% NaN3
- **Reaction group:** streptavidin

STORAGE

Store at 2-8°C.

AVAILABLE PRODUCTS

Catalog	Product Description	Size	Concentration	Unit size
SHS10-01	Streptavidin Iron Oxide Nanoparticles	10 nm	1 mg/mL	1 mL
SHS10-05	Streptavidin Iron Oxide Nanoparticles	10 nm	1 mg/mL	5 mL
SHS20-01	Streptavidin Iron Oxide Nanoparticles	20 nm	1 mg/mL	1 mL
SHS20-05	Streptavidin Iron Oxide Nanoparticles	20 nm	1 mg/mL	5 mL
SHS30-01	Streptavidin Iron Oxide Nanoparticles	30 nm	1 mg/mL	1 mL
SHS30-05	Streptavidin Iron Oxide Nanoparticles	30 nm	1 mg/mL	5 mL