

PRODUCT DATA SHEET
Iron Oxide Magnetic Nanoparticles

Magnetic iron oxide (Fe_3O_4) nanocrystals from Cytodiagnosics exploit of the strong magnetic properties of iron oxide and incorporate them into nano-scale materials.

Our water soluble and organic iron oxide nanoparticles exhibit excellent size distribution, which allows for their use in high-level applications where strict control over the nanocrystals' properties and characteristics is necessary. These high-quality iron oxide nanocrystals display exceptional magnetic properties, nearing those of the pure/bulk iron oxide.

Cytodiagnosics iron oxide nanocrystals are available in both water soluble (ddH₂O) and non-polar solvent (toluene) soluble formats and with 5 nm, 10 nm, and 20 nm diameters.

Characteristics

Composition: Iron Oxide Magnetic Nanoparticles (magnetite, Fe_3O_4), Superparamagnetic

Concentration: 5 mg/ml

Volume: 2 ml (10mg), 5 ml (25mg), 10 ml (50mg) & 20 ml (100mg) formats available

Storage and Stability

This product should be stored at 25°C. If stored as specified, Cytodiagnosics Magnetic Nanoparticles have a shelf life of approximately 6 months. **DO NOT FREEZE.**

Precautions and Disclaimer

These products are for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet available online at www.cytodiagnosics.com for information regarding hazards and safe handling procedures.

Ordering Information

For ordering call 866-344-3954 or visit us online.

Catalog Number	Description	Magnetization	Quantity (mg)
IO-O5-X*	5nm (+/- 1.5 nm) Iron Oxide Magnetic Nanoparticles, Organic	> 30 emu/g	10, 25, 50, 100mg
IO-O10-X*	10nm (+/- 1.5 nm) Iron Oxide Magnetic Nanoparticles, Organic	> 45 emu/g	10, 25, 50, 100mg
IO-O20-X*	20nm (+/- 3 nm) Iron Oxide Magnetic Nanoparticles, Organic	> 20 emu/g	10, 25, 50, 100mg
IO-A5-X*	5nm (+/- 1.5 nm) Iron Oxide Magnetic Nanoparticles, Water Soluble	> 30 emu/g	10, 25, 50, 100mg
IO-A10-X*	10nm (+/- 1.5 nm) Iron Oxide Magnetic Nanoparticles, Water Soluble	> 45 emu/g	10, 25, 50, 100mg
IO-A20-X*	20nm (+/- 3 nm) Iron Oxide Magnetic Nanoparticles, Water Soluble	> 20 emu/g	10, 25, 50, 100mg

*Indicates quantity, e.g., IO-O5-10 for 10mg of 5nm Iron Oxide Magnetic Nanoparticles, Organic