

NITmagold Cit 250nm

STORE AT 4°C away from light. **DO NOT FREEZE**

Description

Magnetic nanoparticles coated with gold add new properties (inertness, protection of the magnetic core against oxidation, optical properties) to those of the magnetic particles, without modifying their superparamagnetic behaviour. Gold shell is coated with citrate anions which can be displaced with a wide range of molecules containing a thiol (SH) group. Once functionalized, they can be employed as platforms for many applications such as target-specific drug delivery, biosensors, lateral flow tests, flow cytometry, cancer photothermal therapy.

Technical Specifications

Particle Surface: Citrate anions.

Peak SPR wavelength: 580 ± 5 nm

Particle Diameter:¹ $\sim 250 \pm 70$ nm

Polydispersity index: 0.2

O.D.: 10

Solvent: Milli-Q water

[Particles] : 3.4 mg/mL

Nº Particles /mL : $\sim 3.1 \times 10^{10}$

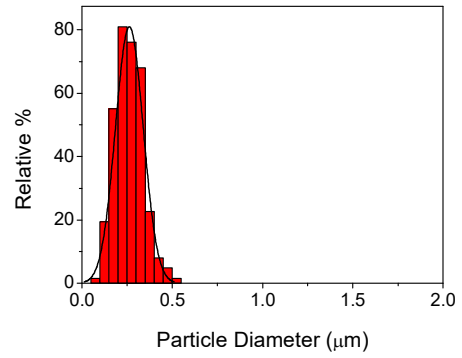
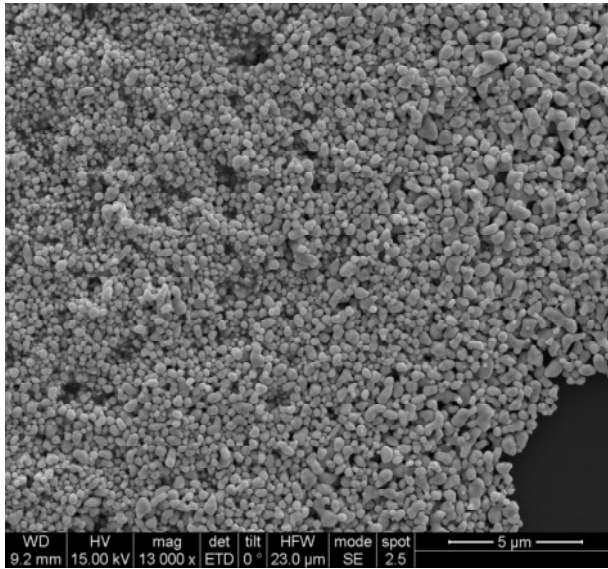
The product may contain some uncoated magnetic particles

1 Histogram SEM image analysis.

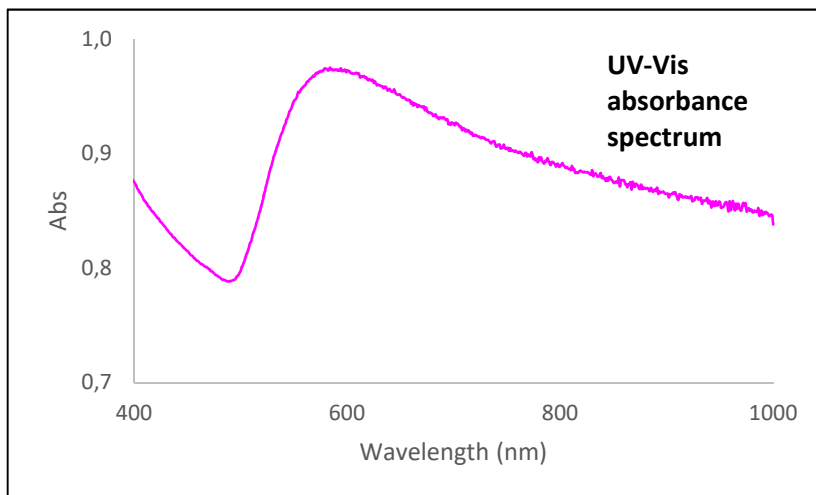


Electron microscopy characterization

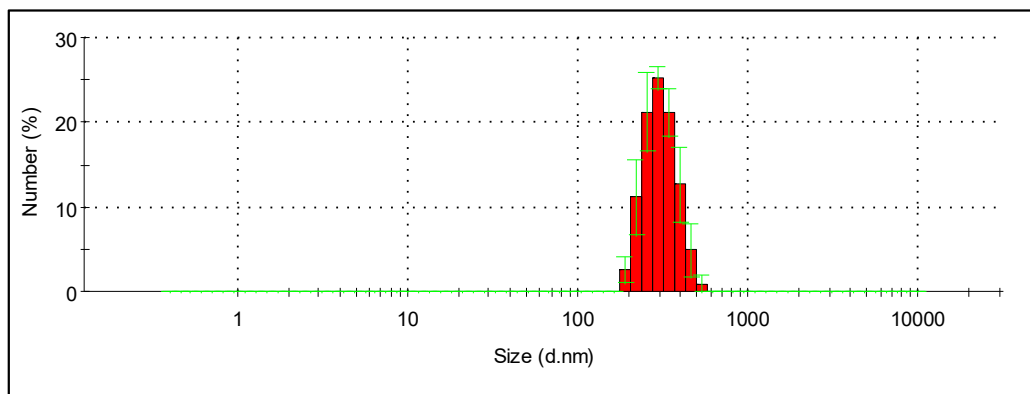
SEM image



Optical characterization



Size characterization by dynamic light scattering (DLS)



Suggested Application(s)

- Magnetic separation
- Biosensing
- Magnetic hyperthermia
- Drug delivery

Ordering Information

Product name	Nanoparticles/mL	O.D.	Quantity	Catologue No.
NITmagold Cit 250nm	3.1E+10	10	0.5 ml	51011915R
NITmagold Cit 250nm	3.1E+10	10	1 ml	51011915S
NITmagold Cit 250nm	3.1E+10	10	5 ml	51011915W
NITmagold Cit 250nm	3.1E+10	10	10 mL	51011915Y

Product disclaimer

This nanoparticles product is to be used for research purposes only. Unless stated in the documentation of on an individual product label, catalog or other information provided to the buyer, IT IS FORBIDDEN TO USE IT for different purposes, including but not limited to them: in vitro diagnostic, use in food, pharmaceutical purposes, medical purposes, or use in cosmetic products, neither for use in humans nor animals, nor for any commercial purposes. Please refer to www.nanoimmunotech.eu for the Material Safety Data Sheet of the product.

