

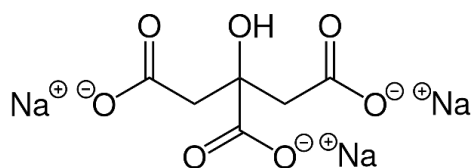


NANOBRAND

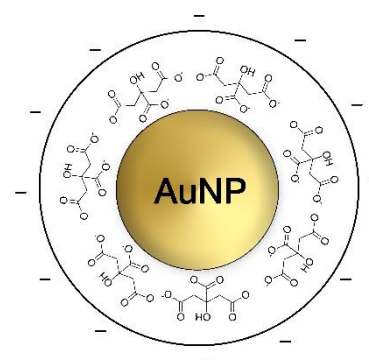
NB-GSP-30-CIT-1

30nm Gold Nano-Spheres, citrate-coated

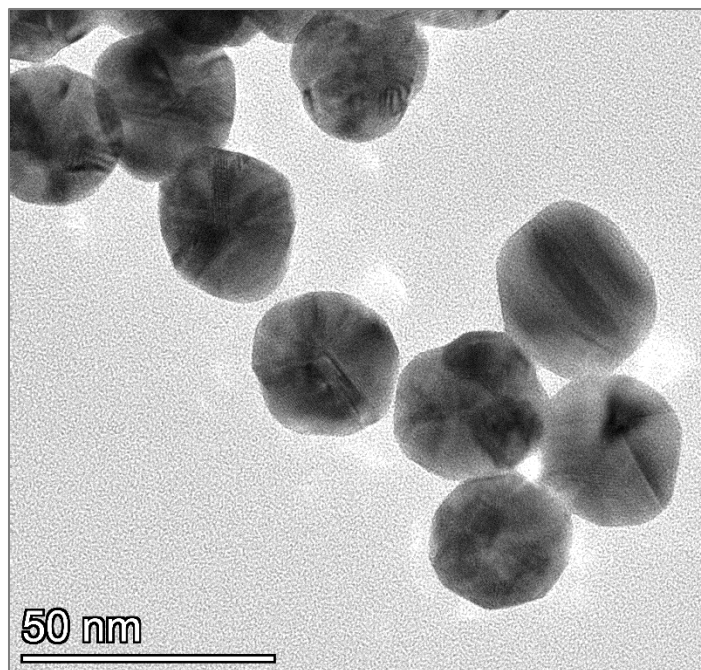
Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	29.96 ± 0.64 nm
Coefficient of polydispersity:	2.15%
Optical density (OD):	1
Mass of single particle:	2.718E-13 mg
Surface of single particle:	2820 nm ²
Volume of single particle:	14081 nm ³
Particles concentration:	1.49E+11 particles/mL
Molar particles concentration:	0.248 nM
Surface area (TEM):	10.38 m ² /g
Surface to volume ratio:	0.200 nm ⁻¹
Mass of gold:	40.42 µg/ml
Hydrodynamic diameter (DLS):	40.39 nm
Zeta-potential:	-36.5 mV
pH of the solution:	5.5 – 6.5
Particle surface:	Sodium Citrate
Solvent:	Milli-Q water (18.1 MΩ-cm)

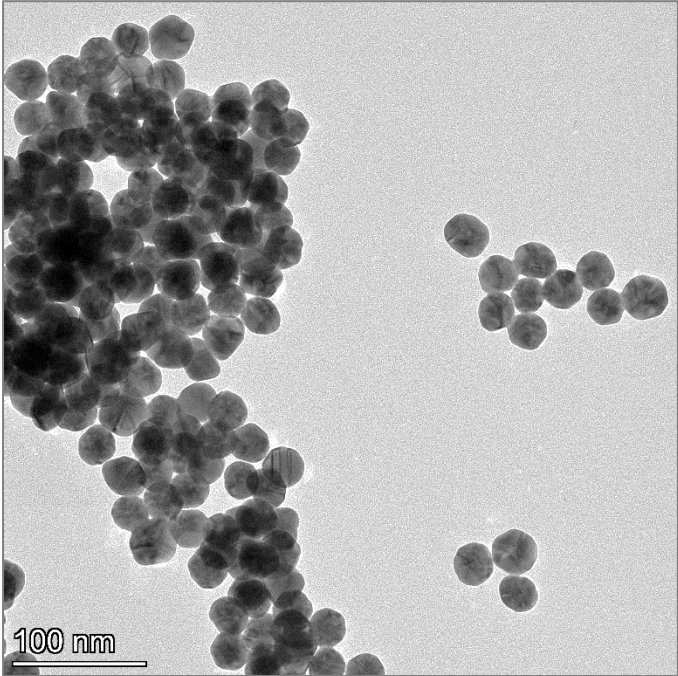
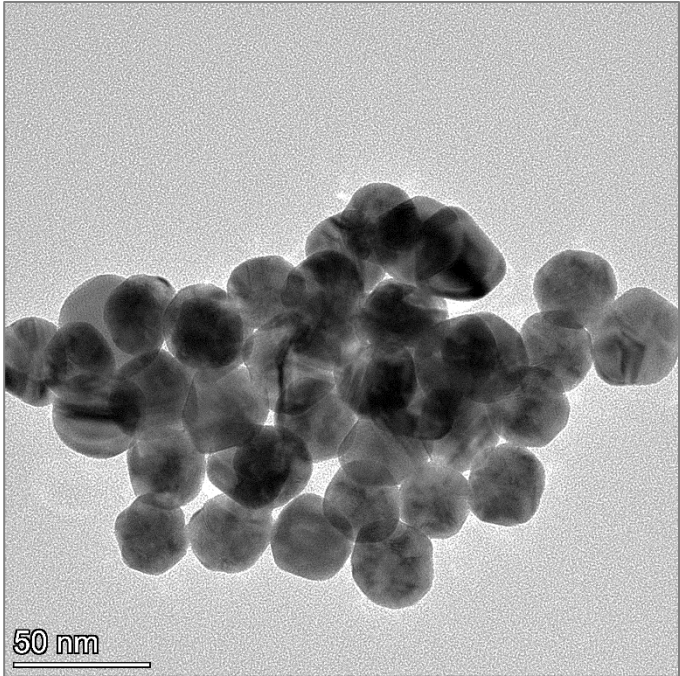


Instrumentation used for characterization

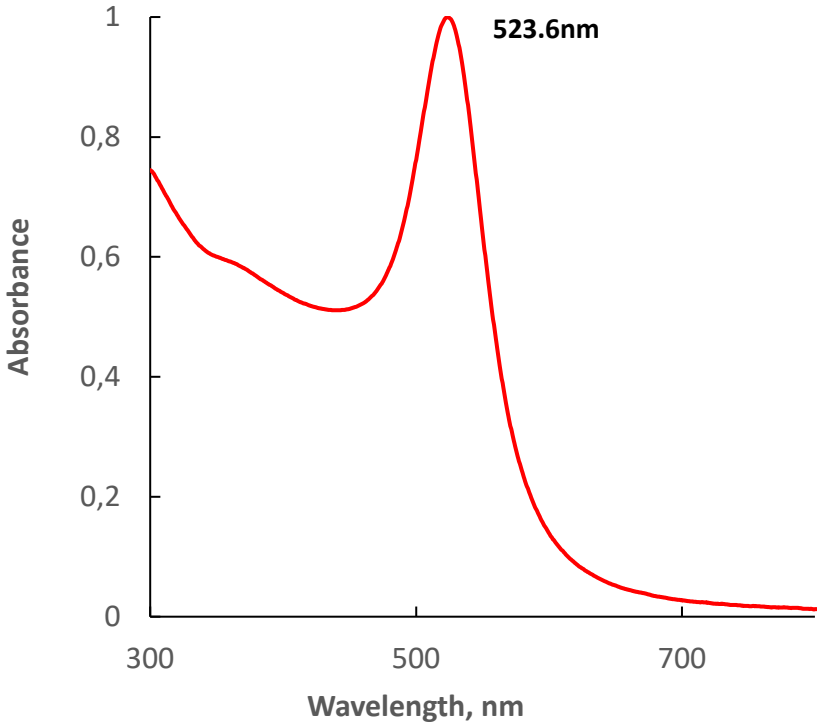
Diameter and size distribution:	Transmission Electron Microscope Thermo Scientific TALOS F200X
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

Shake before use. Store at 4-25°C away from light. DO NOT FREEZE

30 nm Gold Nano-Spheres, citrate-coated



Optical Properties



Size Distribution

