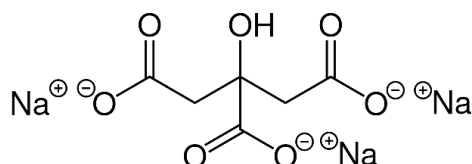




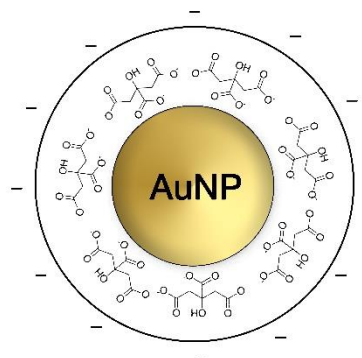
NB-GSP-10-CIT-1

10nm Gold Nano-Spheres, citrate-coated OD=1

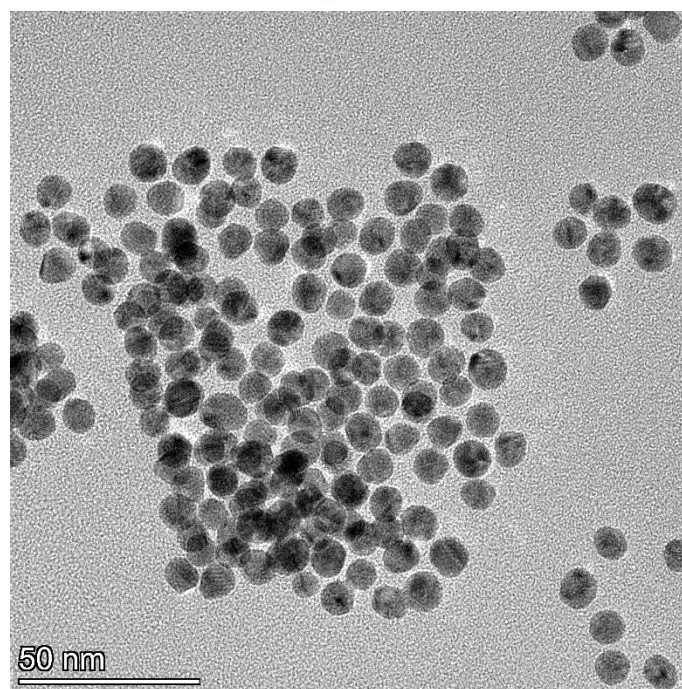
Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	10.98 ± 0.28nm
Coefficient of polydispersity:	2.55 %
Optical density (OD):	1
Mass of single particle:	1.338 E-14 mg
Surface of single particle:	378.75 nm ²
Volume of single particle:	693.12 nm ³
Particles concentration:	4.412E+12 particles/ml
Molar particles concentration:	7.36 nM
Surface area (TEM):	28.31 m ² /g
Surface to volume ratio:	0.546 nm ⁻¹
Mass of gold:	59.03 µg/ml
Hydrodynamic diameter (DLS):	15.58 nm
Zeta-potential:	-33.7mV
pH of the solution:	5.5 – 6.5
Particle surface:	Sodium Citrate
Solvent:	Milli-Q water (18.1 MΩ-cm)



Instrumentation used for characterization

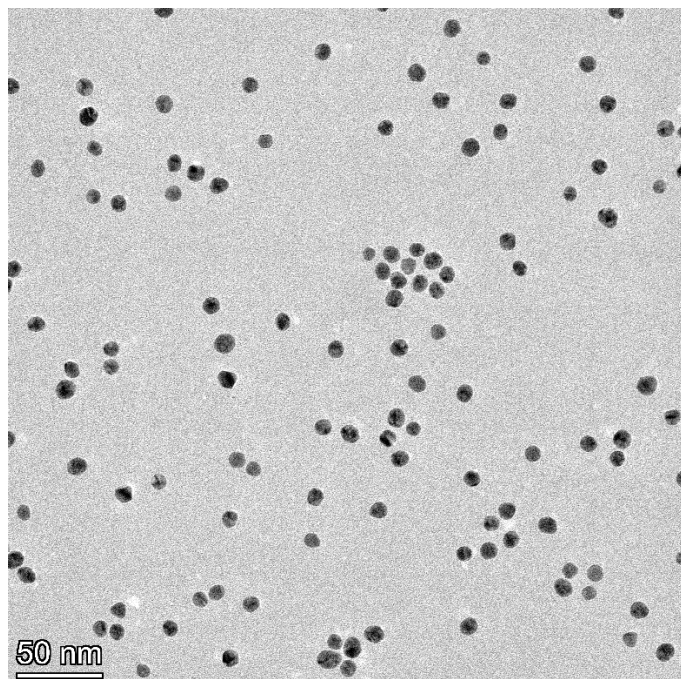
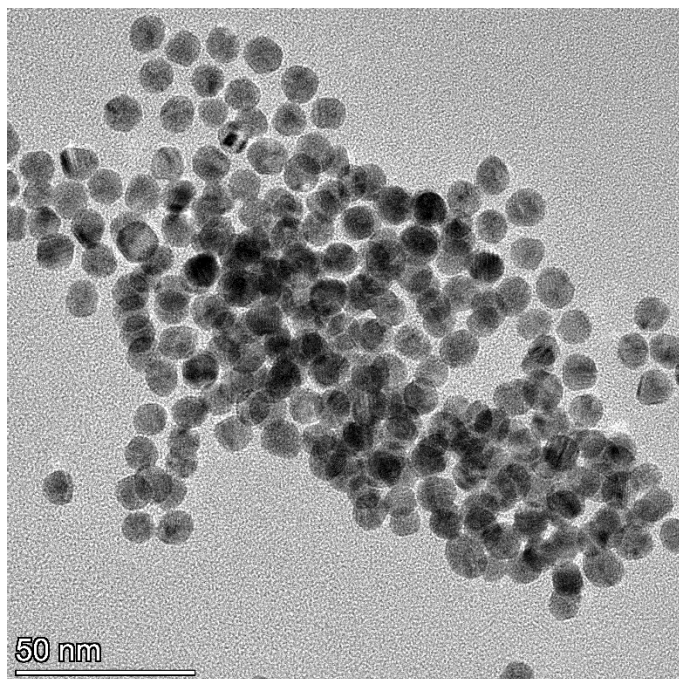
Diameter and size distribution:	Transmission Electron Microscope Thermo Scientific TALOS F200X
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

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

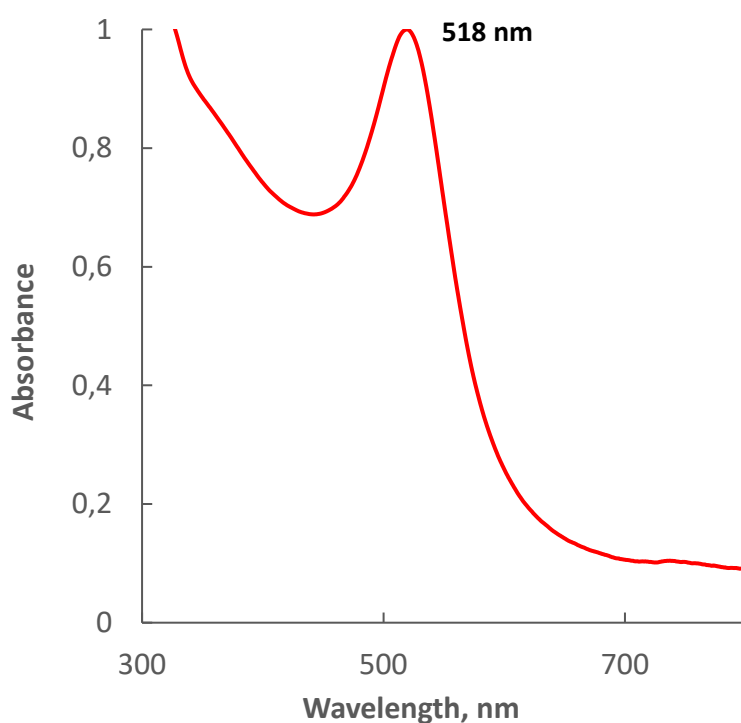


NB-GSP-10-CIT-1

10 nm Gold Nano-Spheres, citrate-coated OD=1



Optical properties



Size Distribution

