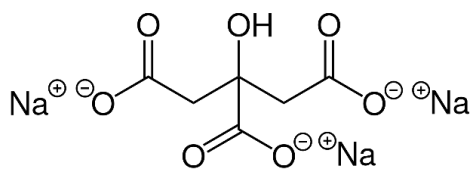




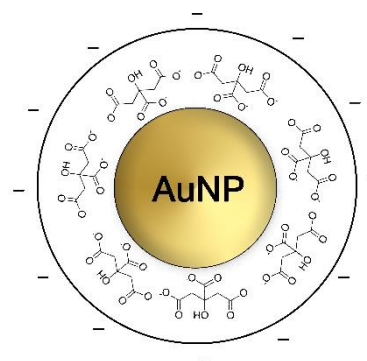
NB-GSP-40-CIT-1

40nm Gold Nano-Spheres, citrate-coated OD=1

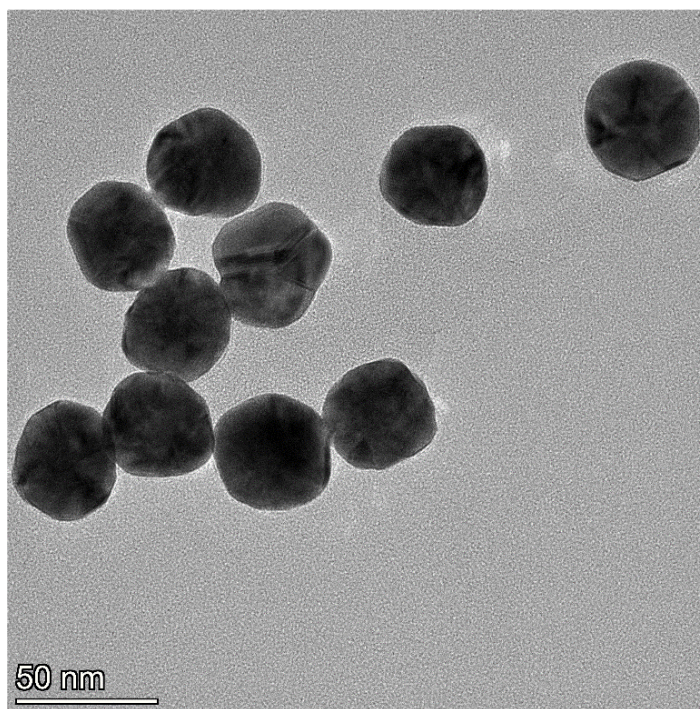
Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	39.93 ± 0.73 nm
Coefficient of polydispersity:	1.82%
Optical density (OD):	1
Mass of single particle:	6.434E-13 mg
Surface of single particle:	5009.0 nm ²
Volume of single particle:	33335 nm ³
Particles concentration:	6.63E+10 particles/mL
Molar particles concentration:	0.111 nM
Surface area (TEM):	7.79 m ² /g
Surface to volume ratio:	0.150 nm ⁻¹
Mass of gold:	42.67 µg/mL
Hydrodynamic diameter (DLS):	43.31 nm
PdI (DLS):	0.063
Zeta-potential:	-40.1 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

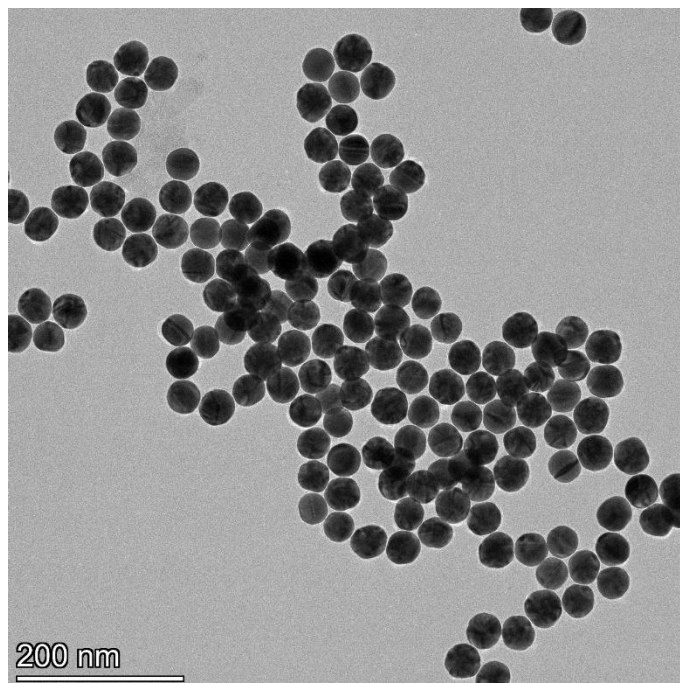
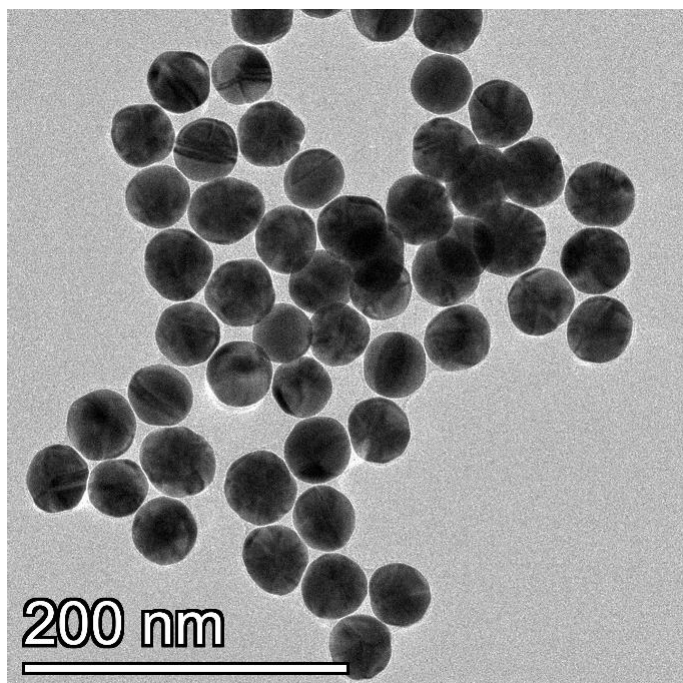
Shake before use. Store at 4-25°C away from light. DO NOT FREEZE



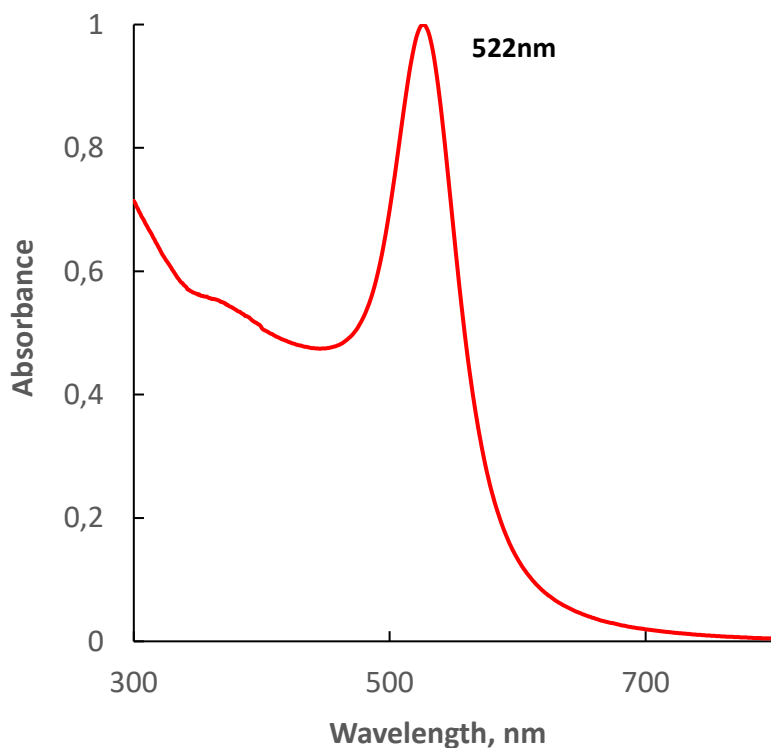
NANOBRAND

NB-GSP-40-CIT-1

40nm Gold Nano-Spheres, citrate-coated OD=1



Optical Properties



Size Distribution

