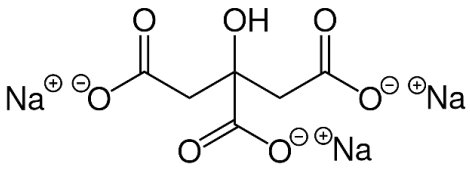
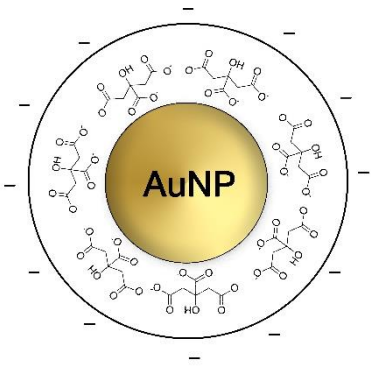
NB-GSP-40-CIT-1

40nm Gold Nano-Spheres, citrate-coated

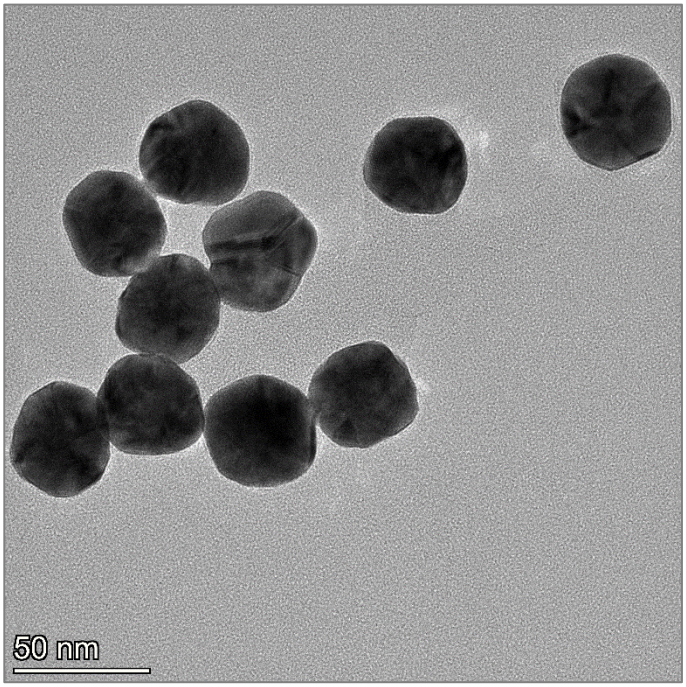
Sodium Citrate
CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	39.96 ± 0.55 nm
Coefficient of polydispersity:	1.37%
Optical density (OD):	1
Mass of single particle:	6.448E-13 mg
Surface of single particle:	5016.5 nm^2
Volume of single particle:	33410 nm^3
Particles concentration:	6.16E+10 particles/mL
Molar particles concentration:	0.103 nM
Surface area (TEM):	7.78 m^2/g
Surface to volume ratio:	0.150 nm^{-1}
Mass of gold:	39.74µg/ml
Hydrodynamic diameter (DLS):	44.11 nm
Zeta-potential:	-35.8 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

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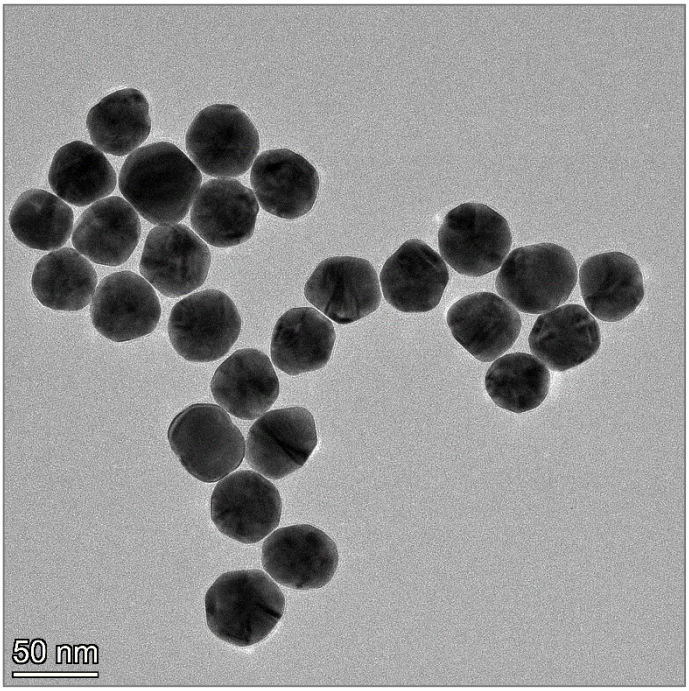
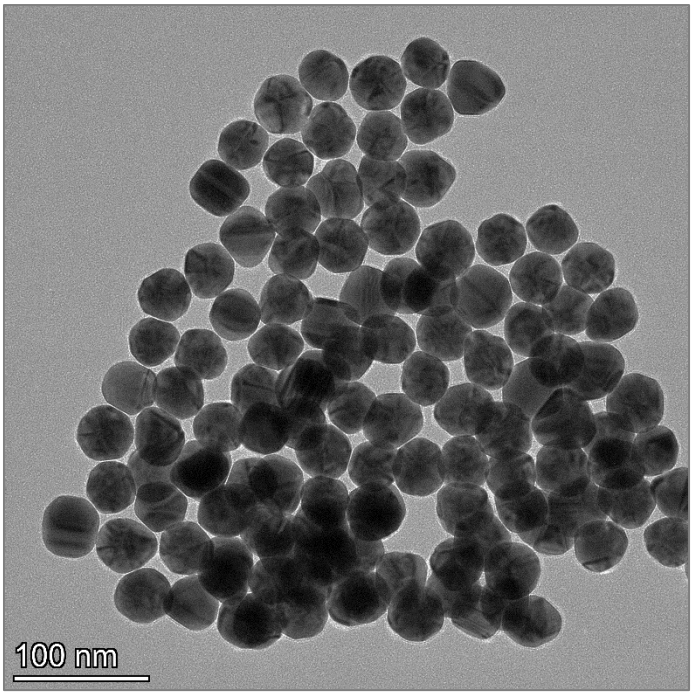
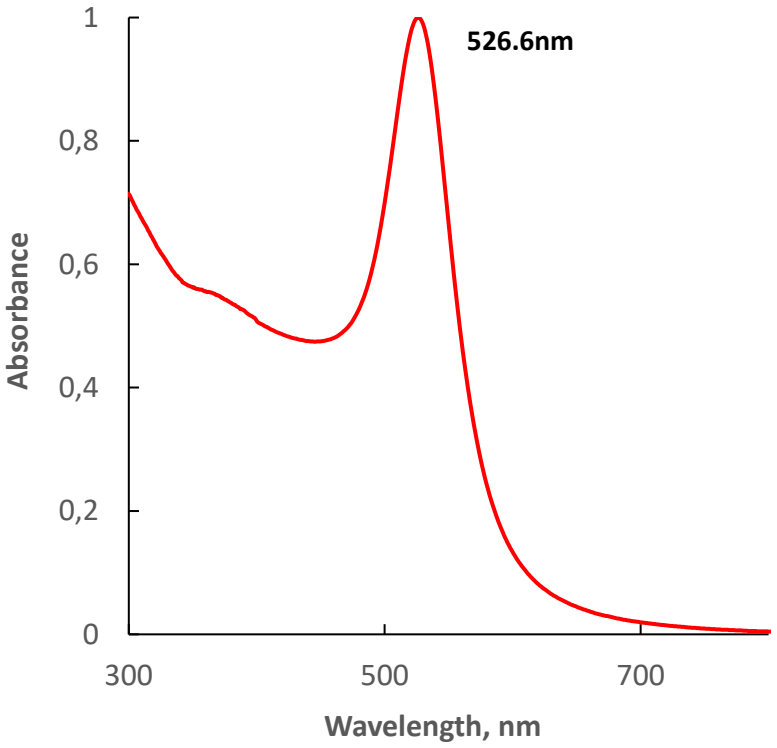
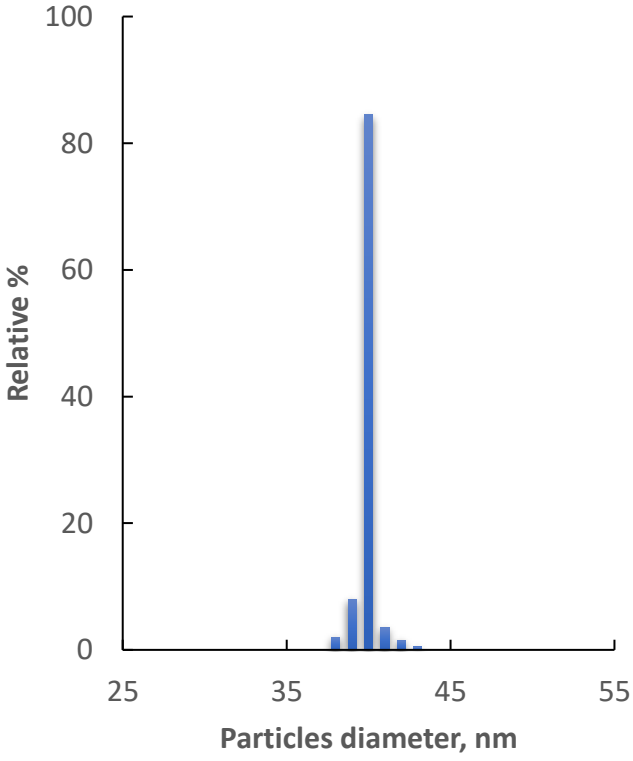




Optical Properties



Size Distribution



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