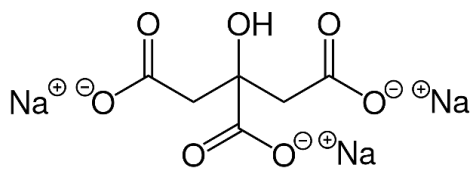




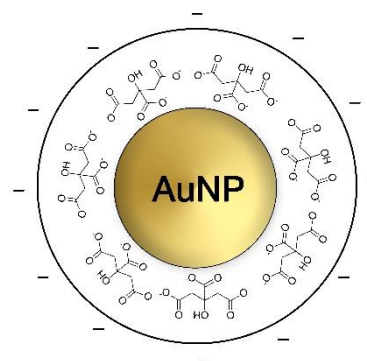
NB-GSP-30-CIT-1

30nm Gold Nano-Spheres, citrate-coated OD=1

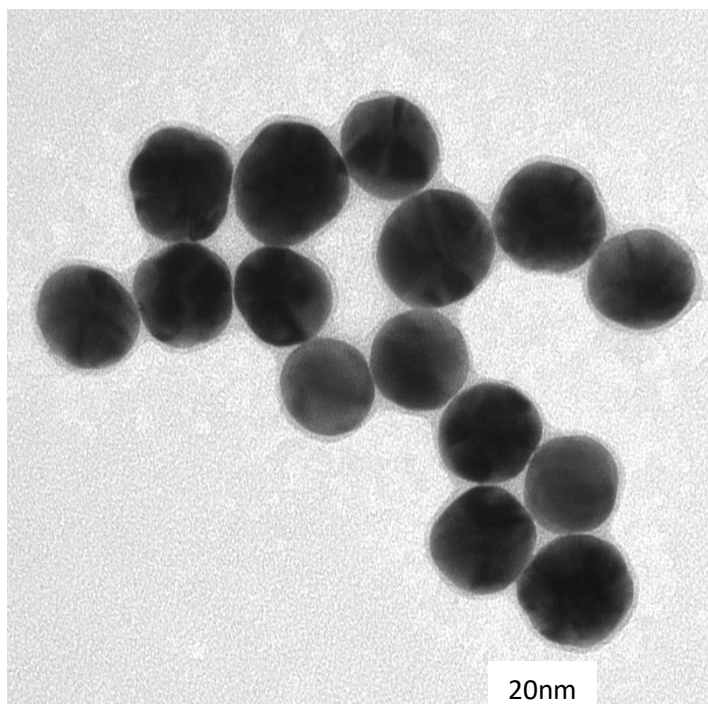
Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	29.71 ± 0.73 nm
Coefficient of polydispersity:	2.46%
Optical density (OD):	1
Mass of single particle:	2.650 E-13 mg
Surface of single particle:	2773 nm ²
Volume of single particle:	13731 nm ³
Particles concentration:	1.69 E+11 particles/ml
Molar particles concentration:	0.281 nM
Surface area (TEM):	10.46 m ² /g
Surface to volume ratio:	0.202 nm ⁻¹
Mass of gold:	44.7 µg/ml
Hydrodynamic diameter (DLS):	35.94 nm
PdI (DLS):	0.087
Zeta-potential:	-49.6 mV
pH of the solution:	5.5 – 6.5
Particle surface:	Sodium Citrate
Solvent:	Milli-Q water (18.1 MΩ-cm)

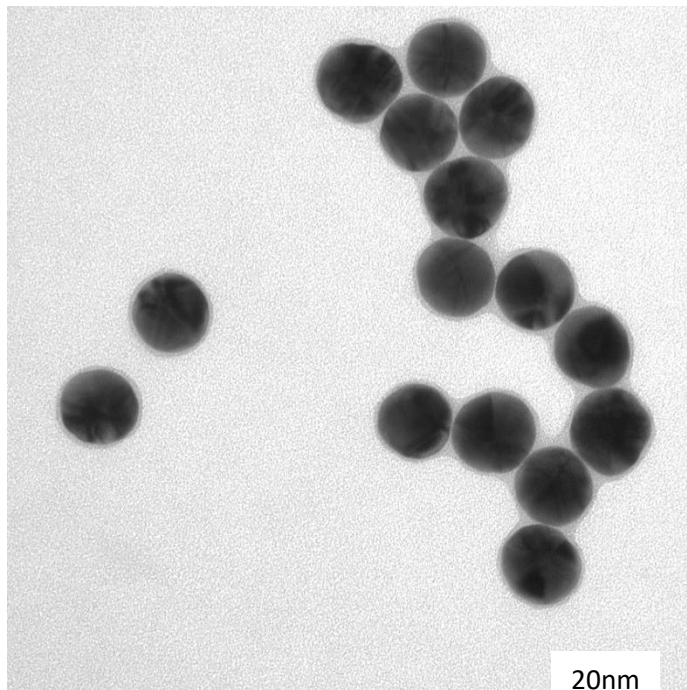
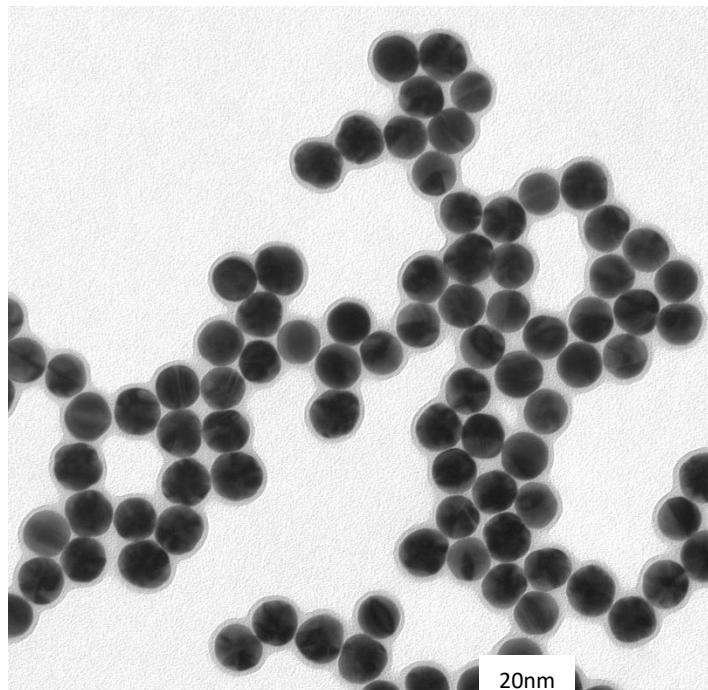


Instrumentation used for characterization

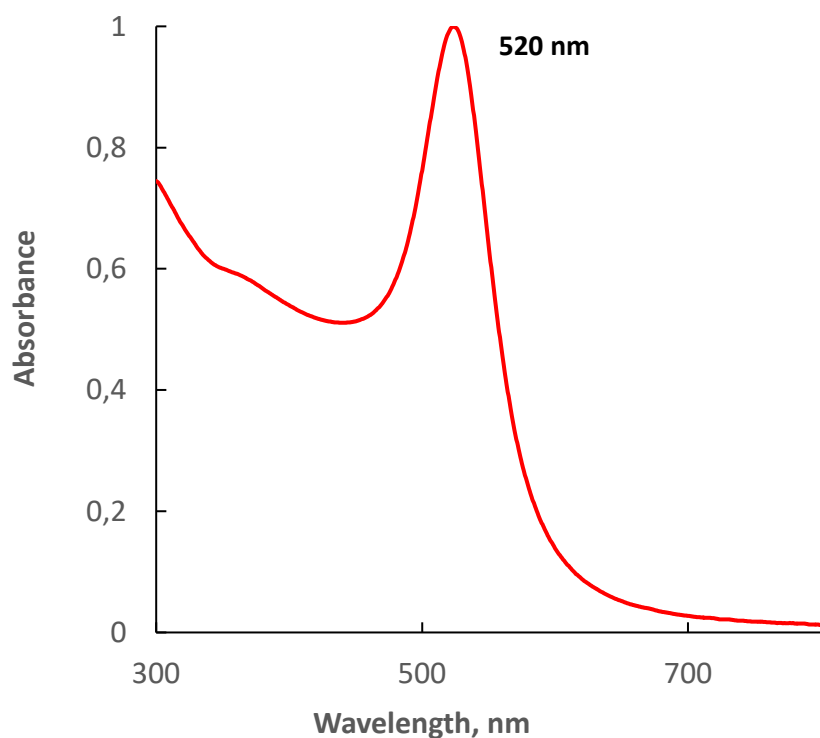
Diameter and size distribution:	Transmission Electron Microscope HITACHI H-7100
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

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

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



Optical Properties



Size Distribution

