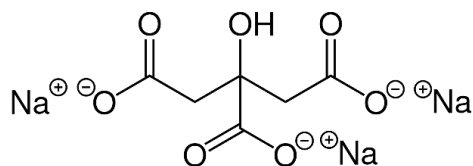


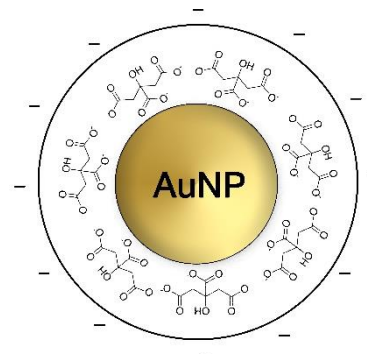


100nm Gold Nano-Spheres, citrate-coated OD=1

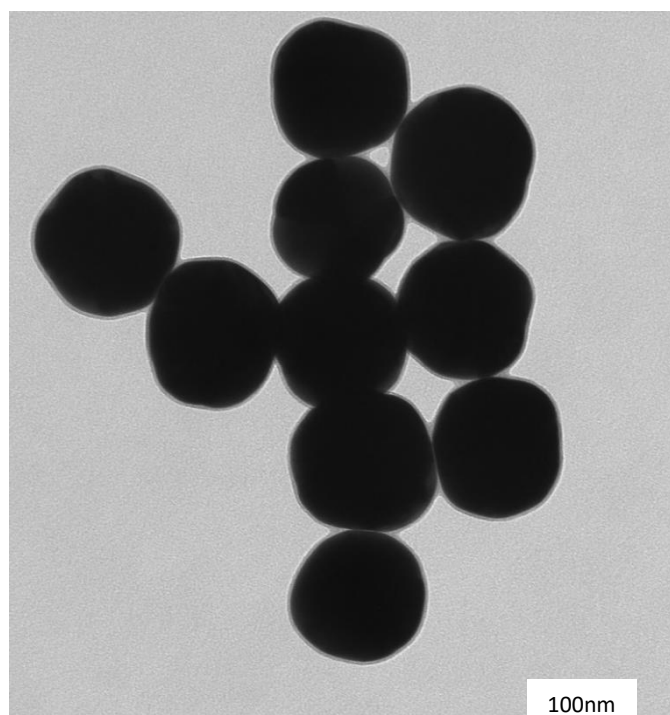
Sodium Citrate
CAS 68-04-2



**Gold nanoparticles coated
with citrate**



Diameter (TEM):	99.76 ± 0.98nm
Coefficient of polydispersity:	0.98 %
Optica density (OD):	1
Mass of single particle:	1.003 E-11 mg
Surface of single particle:	3.127 E+4 nm ²
Volume of single particle:	5.198 E+5 nm ³
Particles concentration:	4.426E+9 particles/ml
Molar particles concentration:	7.38E-3 nM
Surface area (TEM):	3.11 m ² /g
Surface to volume ratio:	0.060 nm ⁻¹
Mass of gold:	44.4 µg/ml
Hydrodynamic diameter (DLS):	110.4 nm
PdI (DLS):	0.017
Zeta-potential:	-47.0 mV
pH of the solution:	5.5 – 6.5
Particle surface:	Sodium Citrate
Solvent:	Milli-Q water (18.1 MΩ-cm)



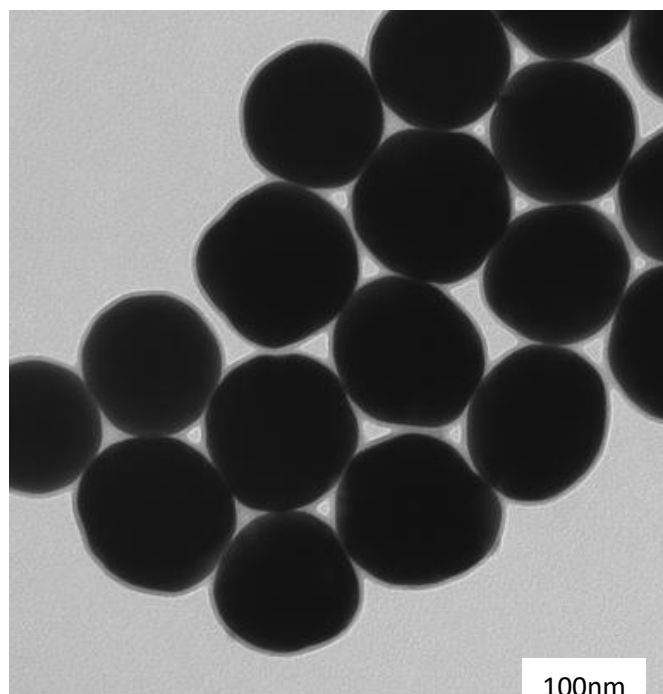
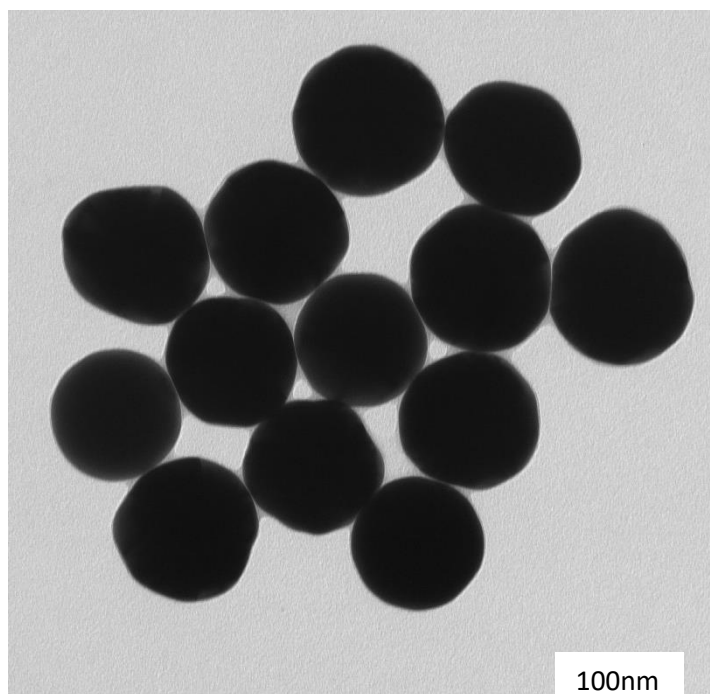
Instrumentation used for characterization

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

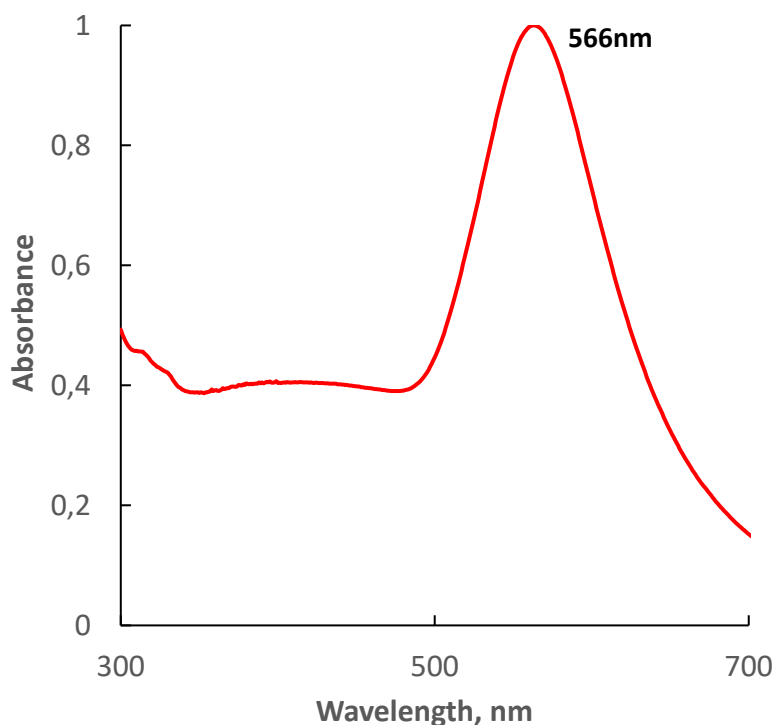
Shake before use. Store at 4-25°C away from light. DO NOT FREEZE



100nm Gold Nano-Spheres, citrate-coated OD=1



Optical Properties



Size Distribution

