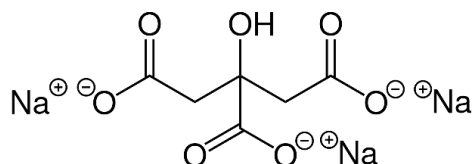


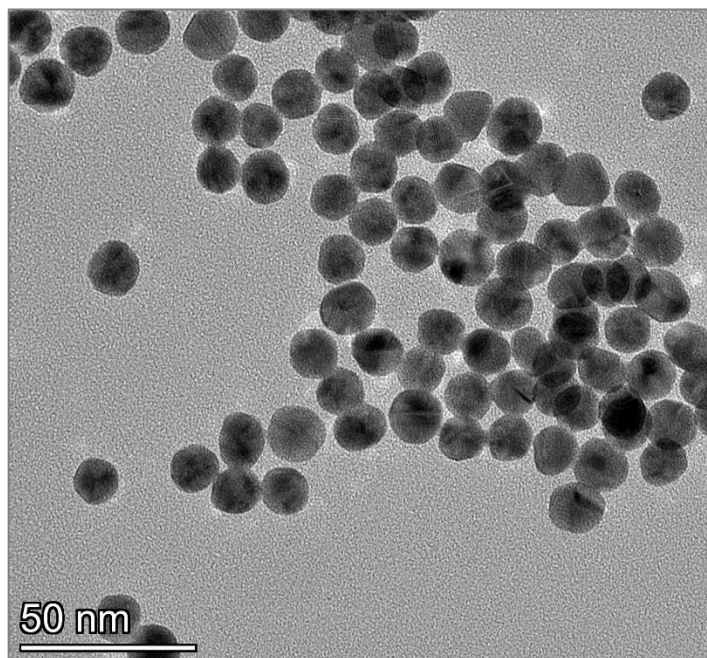
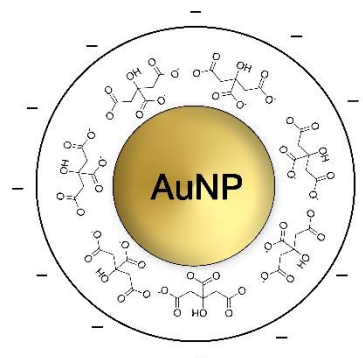


15 nm Gold Nano-Spheres, citrate-coated OD=1

Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	14.81 ± 0.51nm
Coefficient of polydispersity:	3.43 %
Optical density (OD):	1
Mass of single particle:	3.283 E-14 mg
Surface of single particle:	689.07 nm ²
Volume of single particle:	1700.85 nm ³
Particle concentration:	1.630E+12 particles/ml
Molar particles concentration:	2.72 nM
Surface area (TEM):	20.99 m ² /g
Surface to volume ratio:	0.405 nm ⁻¹
Mass of gold:	53.50 µg/ml
Hydrodynamic diameter (DLS):	19.15 nm
PdI (DLS):	0.081
Zeta-potential:	-43.08 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

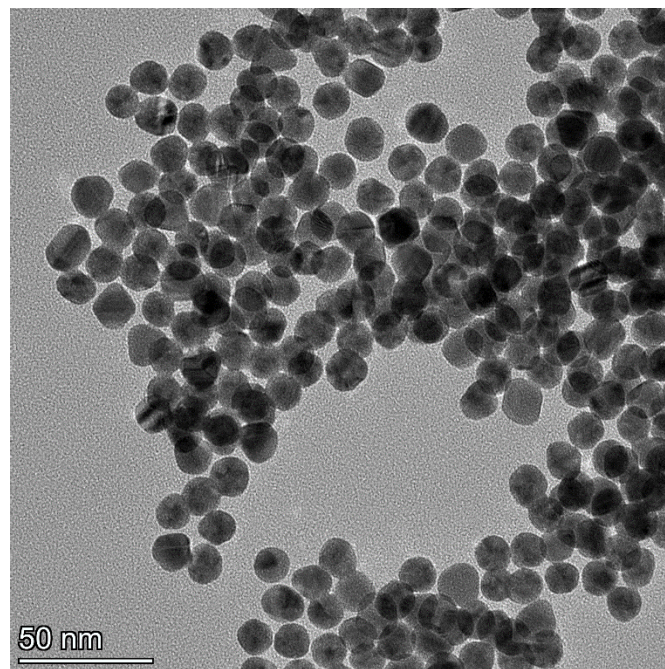
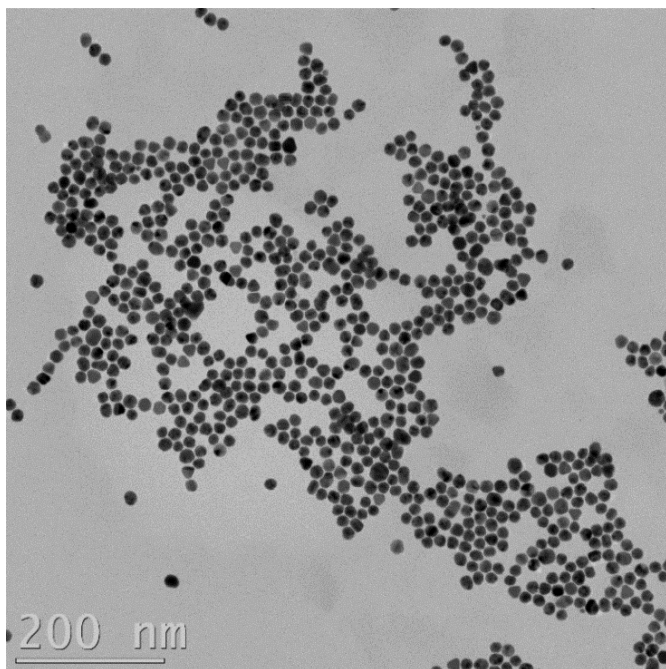
Diameter and size distribution:	Transmission Electron Microscope Thermo Scientific TALOS F200X
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

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

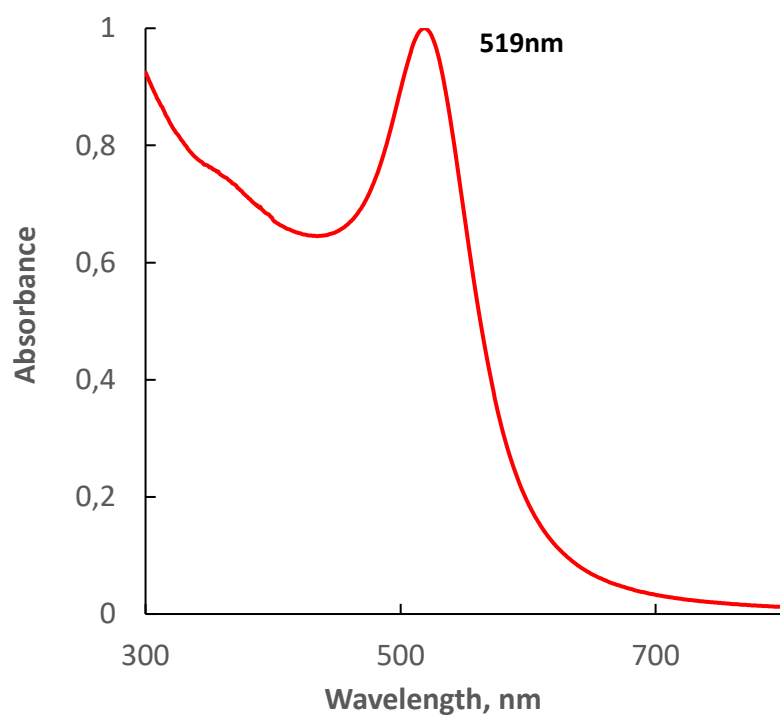
NB-GSP-15-CIT-1



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



Optical Properties



Size Distribution

