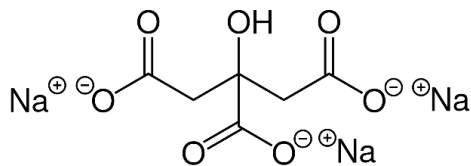




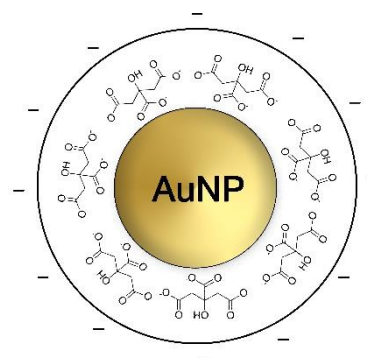
NANOBRAND

50nm Gold Nano-Spheres, citrate-coated OD=1

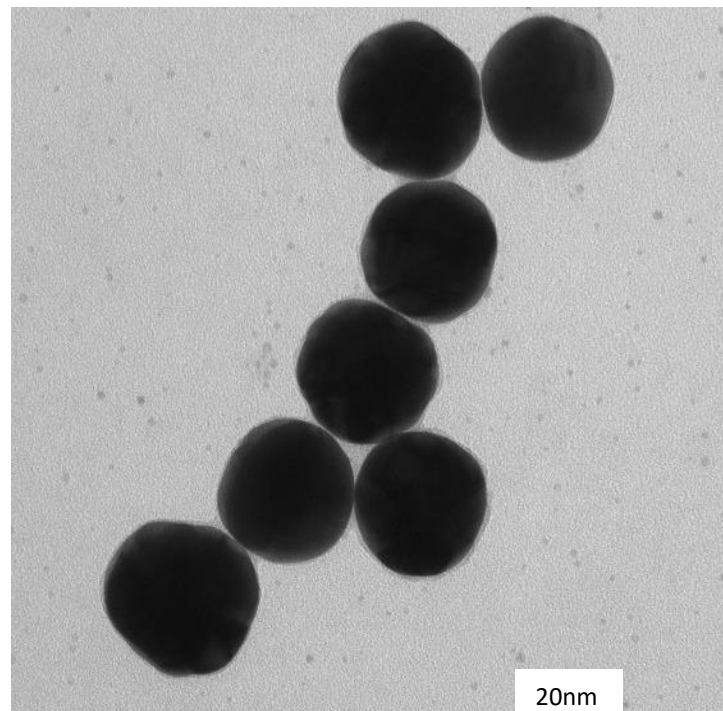
Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	49.90 ± 0.85 nm
Coefficient of polydispersity:	1.70%
Optical density (OD):	1
Mass of single particle:	1.256E-12 mg
Surface of single particle:	7822.6 nm ²
Volume of single particle:	65058 nm ³
Particles concentration:	2.97E+10 particles/mL
Molar particles concentration:	0.050 nM
Surface area (TEM):	6.23 m ² /g
Surface to volume ratio:	0.120 nm ⁻¹
Mass of gold:	37.28 µg/ml
Hydrodynamic diameter (DLS):	53.42 nm
PdI (DLS):	0.087
Zeta-potential:	-40.9 mV
pH of the solution:	5.5 – 6.5
Particle surface:	Sodium Citrate
Solvent:	Milli-Q water (18.1 MΩ-cm)

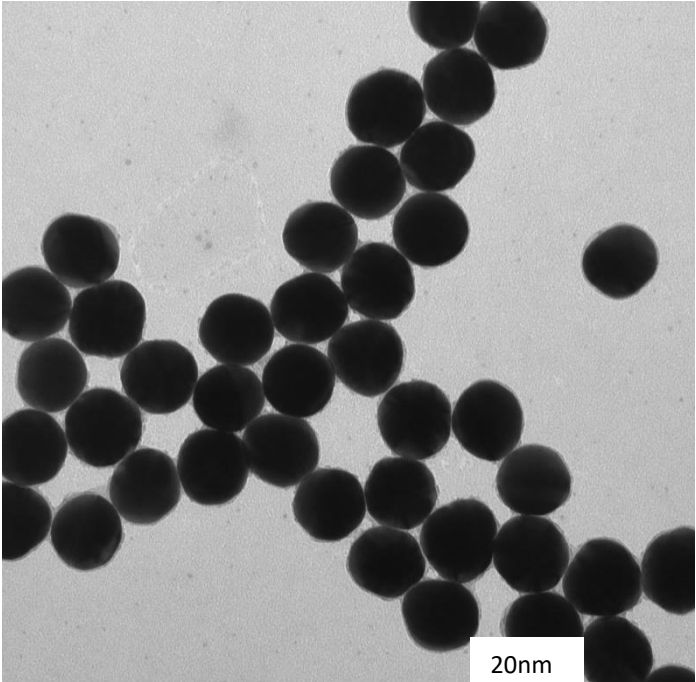
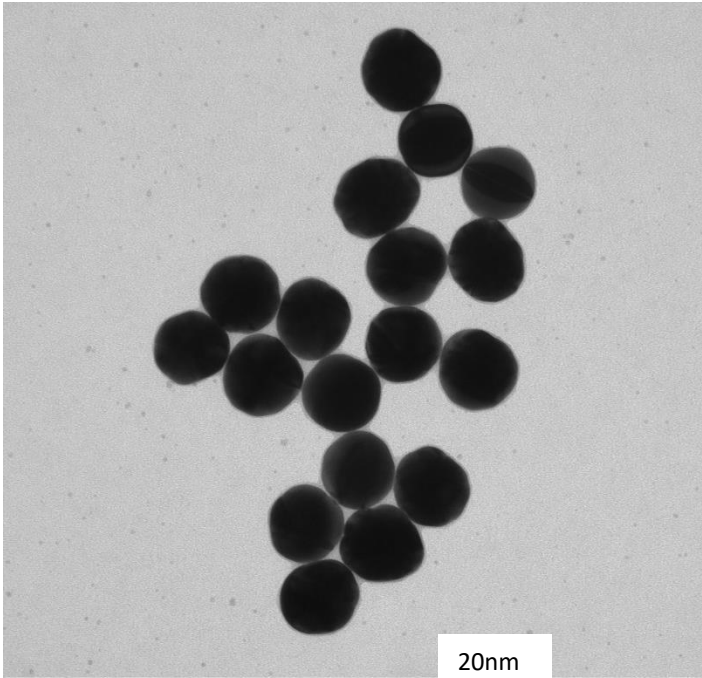


Instrumentation used for characterization

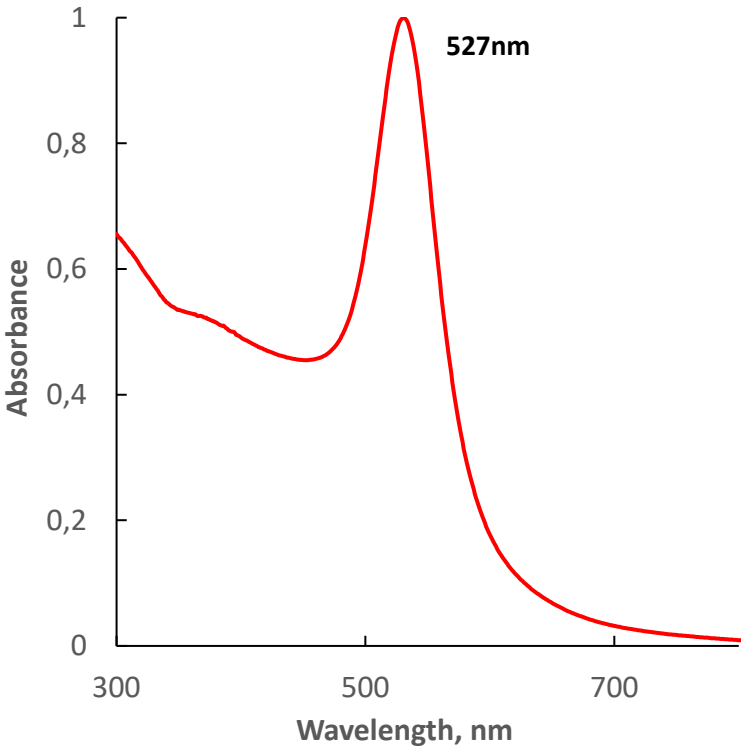
Diameter and size distribution:	Transmission Electron Microscope HITACHI H-7100
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

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

50nm Gold Nano-Spheres, citrate-coated OD=1



Optical Properties



Size Distribution

