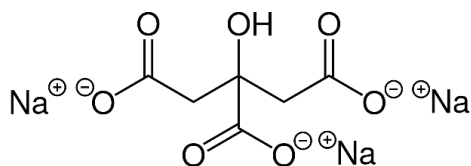




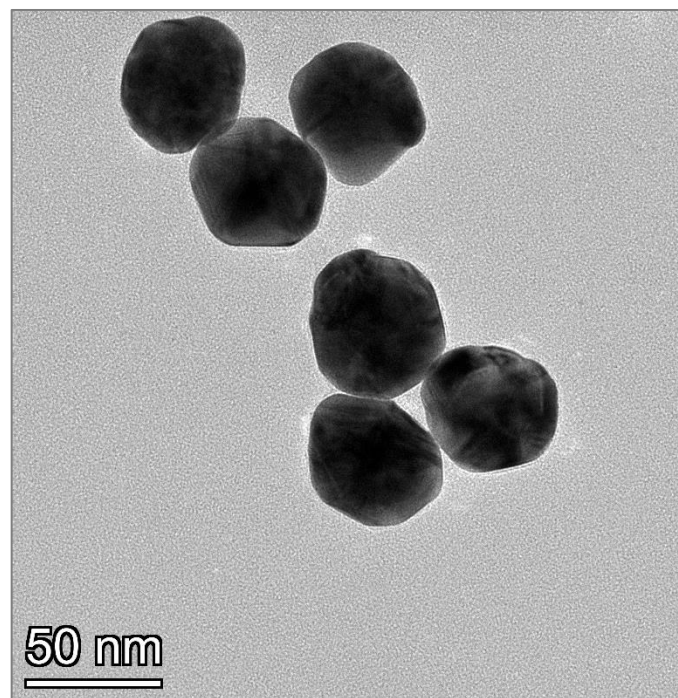
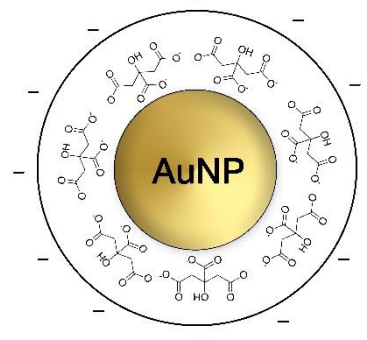
NANOBRAND

50nm Gold Nano-Spheres, citrate-coated

Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



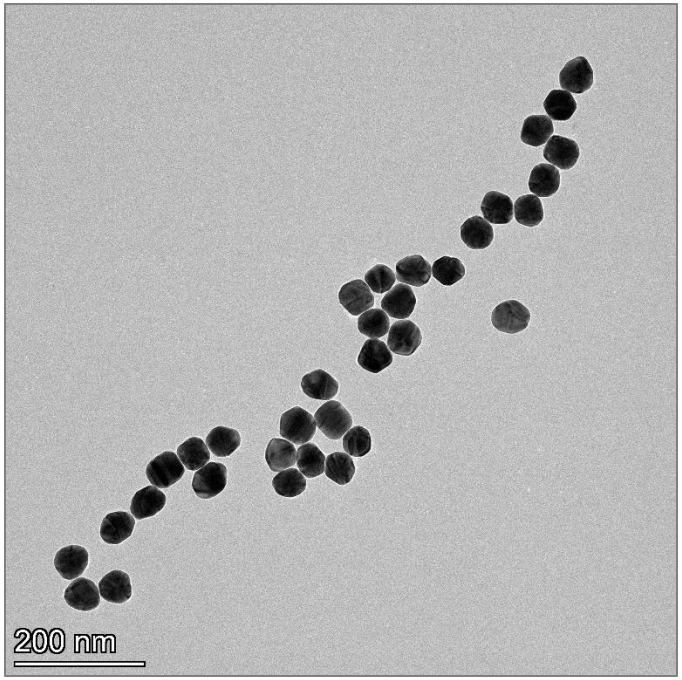
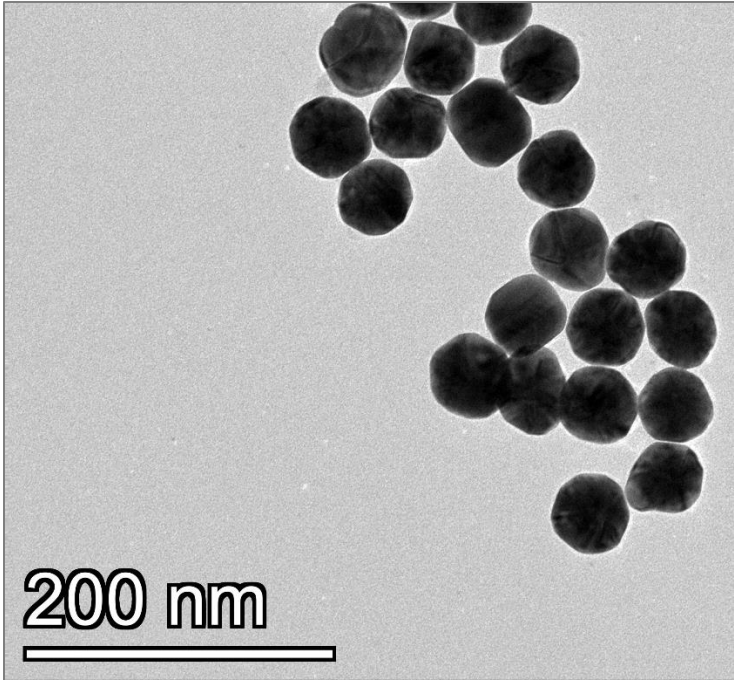
Diameter (TEM):	49.93 ± 0.79 nm
Coefficient of polydispersity:	1.59%
Optical density (OD):	1
Mass of single particle:	1.258E-12 mg
Surface of single particle:	7832 nm ²
Volume of single particle:	65176 nm ³
Particles concentration:	3.98E+10 particles/mL
Molar particles concentration:	0.066 nM
Surface area (TEM):	6.23 m ² /g
Surface to volume ratio:	0.120 nm ⁻¹
Mass of gold:	µg/ml
Hydrodynamic diameter (DLS):	60.58 nm
Zeta-potential:	-34.4 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

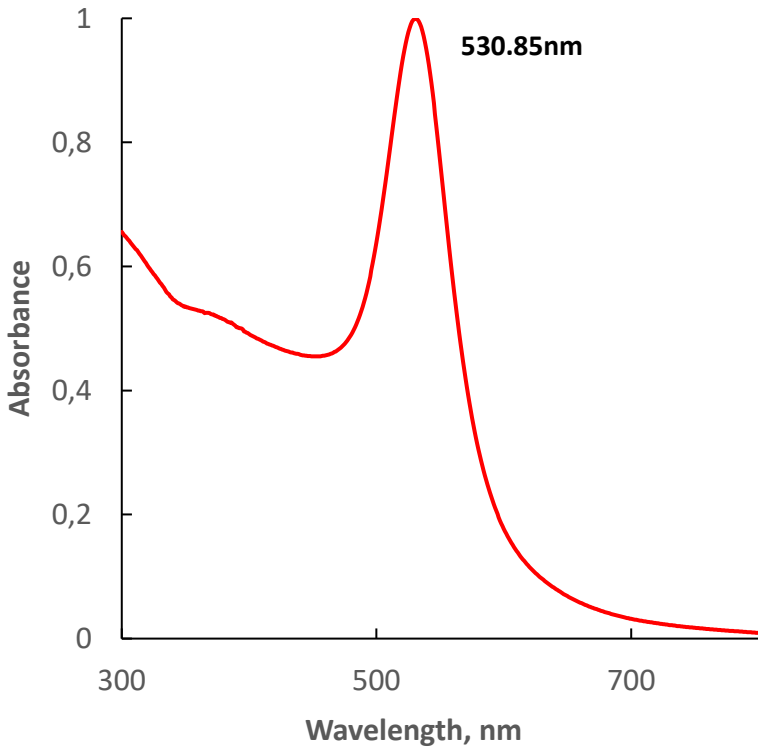
Diameter and size distribution:	Transmission Electron Microscope Thermo Scientific TALOS F200X
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

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

50nm Gold Nano-Spheres, citrate-coated



Optical Properties



Size Distribution

