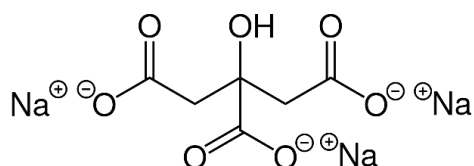


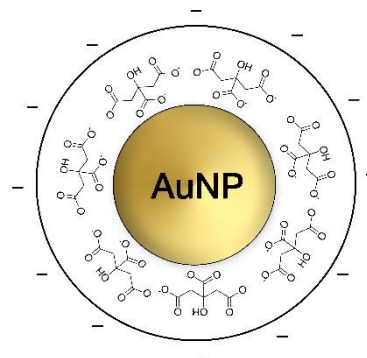


20nm Gold Nano-Spheres, citrate-coated OD=1

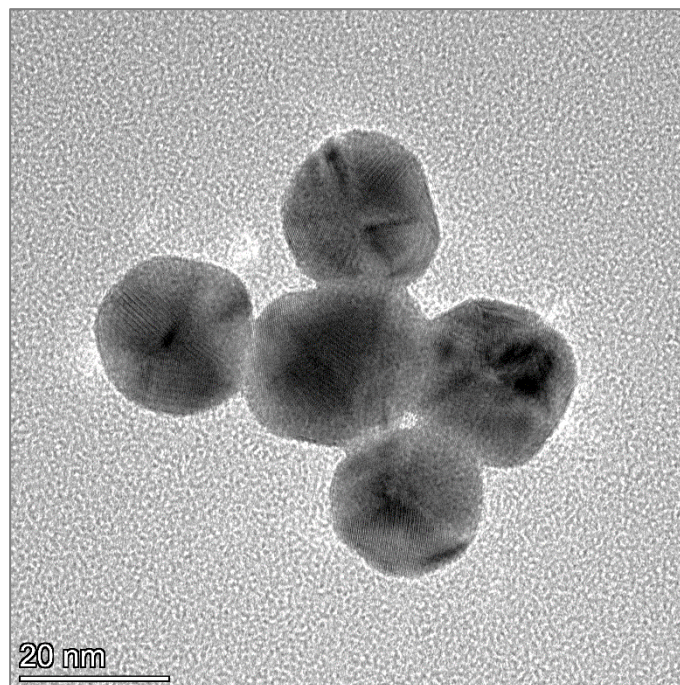
Sodium Citrate CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	19.99 ± 0.59nm
Coefficient of polydispersity:	2.97 %
Optical density (OD):	1
Mass of single particle:	8.072E-14 mg
Surface of single particle:	1255.4 nm ²
Volume of single particle:	4182.5 nm ³
Particles concentration:	6.102E+11 particles/mL
Molar particles concentration:	1.02 nM
Surface area (TEM):	15.55 m ² /g
Surface to volume ratio:	0.300 nm ⁻¹
Mass of gold:	49.26 µg/ml
Hydrodynamic diameter (DLS):	26.48 nm
PdI (DLS):	0.116
Zeta-potential:	-41.3 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

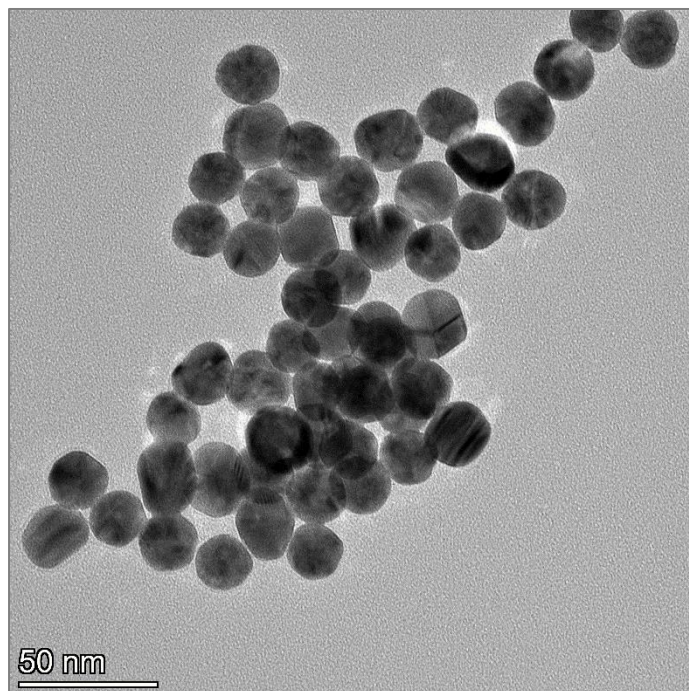
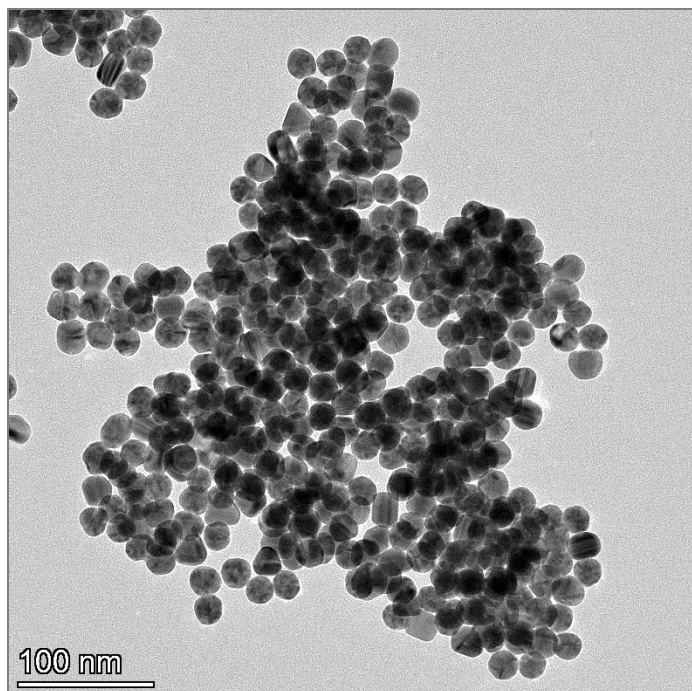
Diameter and size distribution:	Transmission Electron Microscope Thermo Scientific TALOS F200X
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

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

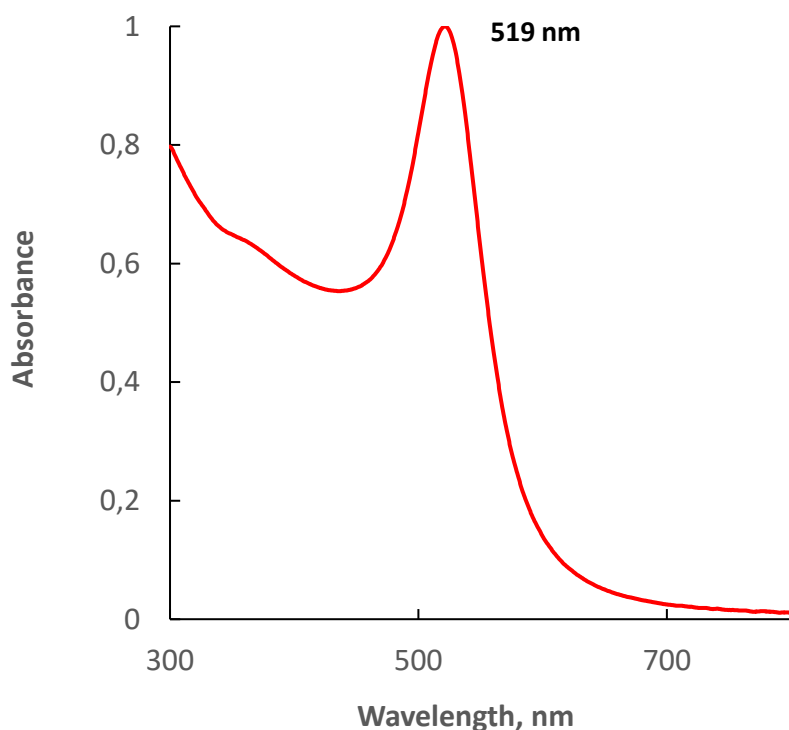


NANOBRAND

20nm Gold Nano-Spheres, citrate-coated OD=1



Optical Properties



Size Distribution

