

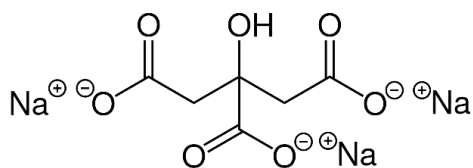


NANOBRAND

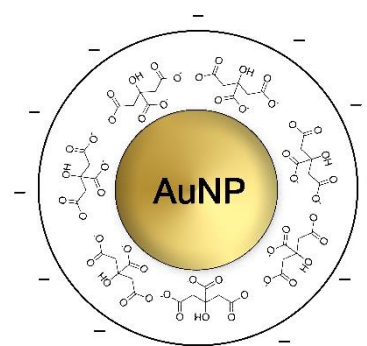
NB-GSP-5-CIT-1

5nm Gold Nano-Spheres, citrate-coated

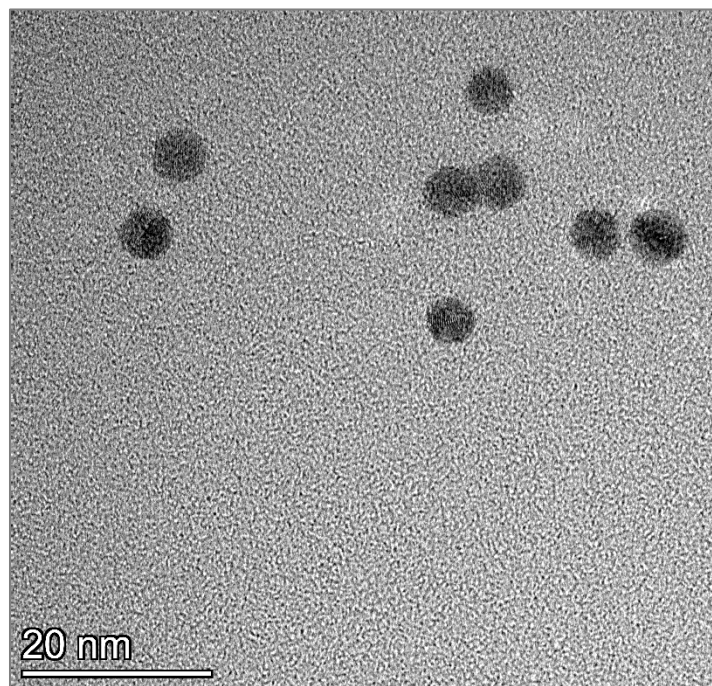
Sodium Citrate
CAS 68-04-2



Gold nanoparticles coated with citrate



Diameter (TEM):	5.07 ± 0.27 nm
Coefficient of polydispersity:	5.4%
Optical density (OD):	1
Mass of single particle:	1.317E-15 mg
Surface of single particle:	80.755 nm ²
Volume of single particle:	68.238 nm ³
Particles concentration:	4.91 E+13 particles/mL
Molar particles concentration:	81.9 nM
Surface area (TEM):	61.32 m ² /g
Surface to volume ratio:	1.1834 nm ⁻¹
Mass of gold:	64.71 µg/ml
Hydrodynamic diameter (DLS):	9.855nm
Zeta-potential:	-55.7 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

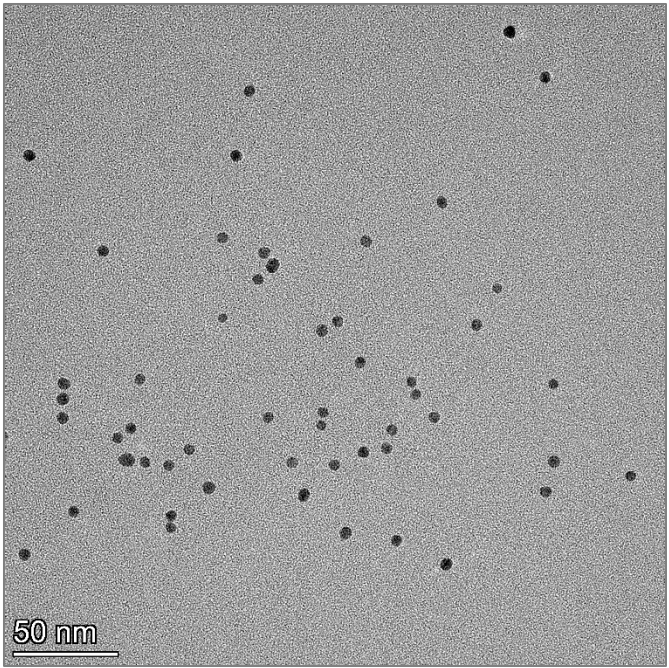
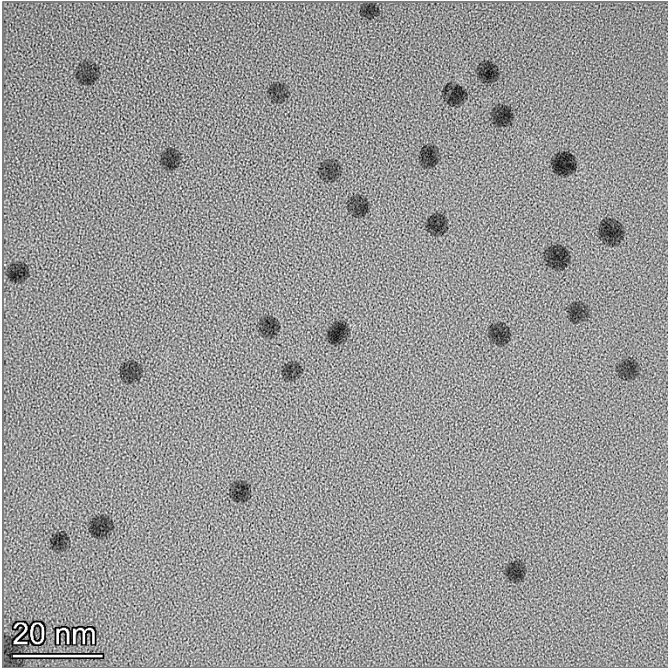
Diameter and size distribution:	Transmission Electron Microscope Thermo Scientific TALOS F200X
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

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

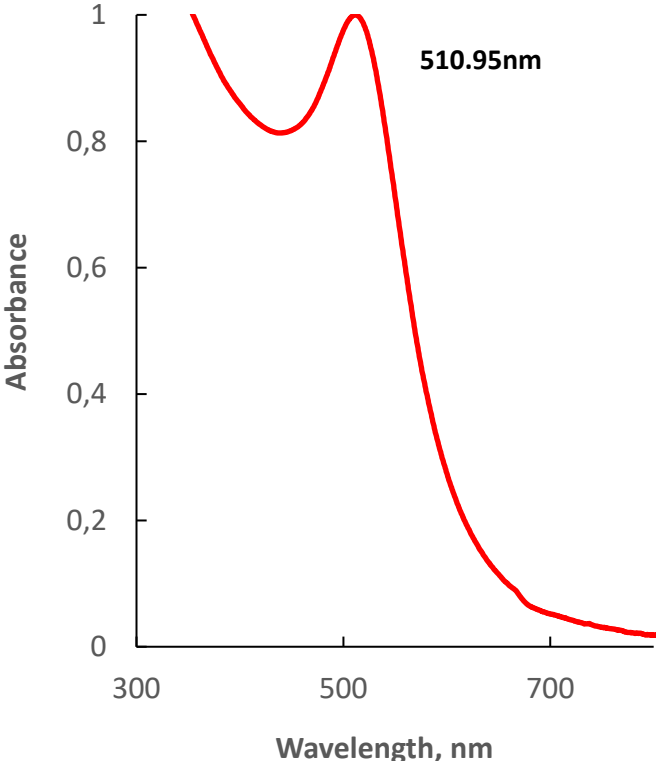


NB-GSP-5-CIT-1

5nm Gold Nano-Spheres, citrate-coated



Optical Properties



Size Distribution

