



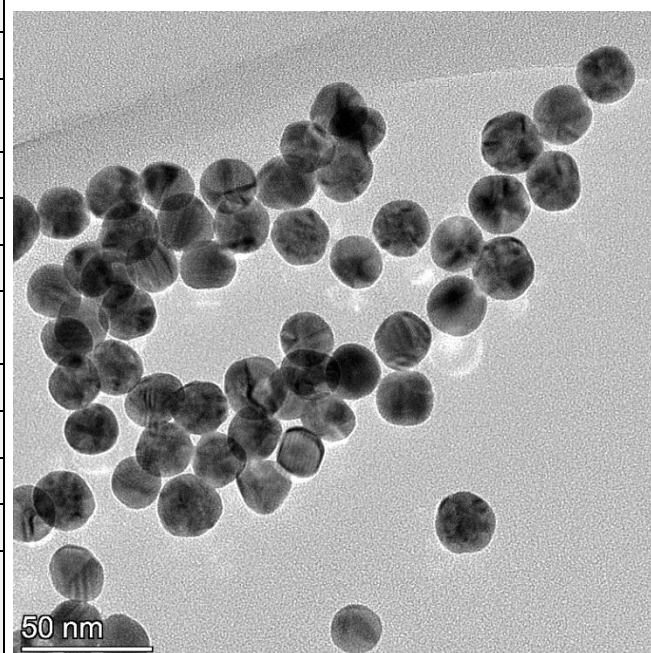
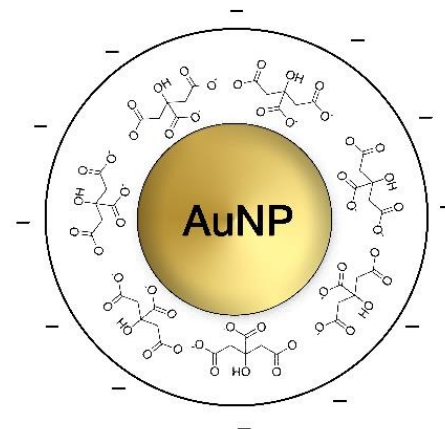
NANOBRAND

NB-GSPLF-20-CIT-20

20nm Gold Nano-spheres "Lateral-Flow-Easy"

**Diameter 20nm,
OD=20,
citrate-coated**

Parameter	Value	Specification
Diameter (TEM):	20.16 ± 0.67 nm	17 – 23 nm
Coefficient of polydispersity:	3.31%	<15%
Optical density (OD):	20.0	19.5 – 20.5
Mass of single particle:	8.280E-14 mg	As reported
Surface of single particle:	1276.8 nm ²	As reported
Volume of single particle:	4290.1 nm ³	As reported
Particles concentration:	1.14E+13 particles/ml	As reported
Molar particles concentration:	19.00 nM	As reported
Surface area (TEM):	15.42 m ² /g	As reported
Surface to volume ratio:	0.298 nm ⁻¹	As reported
Mass of gold:	944.09 µg/ml	As reported
Hydrodynamic diameter (DLS):	24.23 nm	20 – 30 nm
Zeta-potential:	-40.5 mV	<20 mV
pH of the solution:	6.2	5.5 – 6.5
Particle surface:	Citrate	Citrate
Solvent:	Milli-Q water (18.1 MΩ-cm)	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

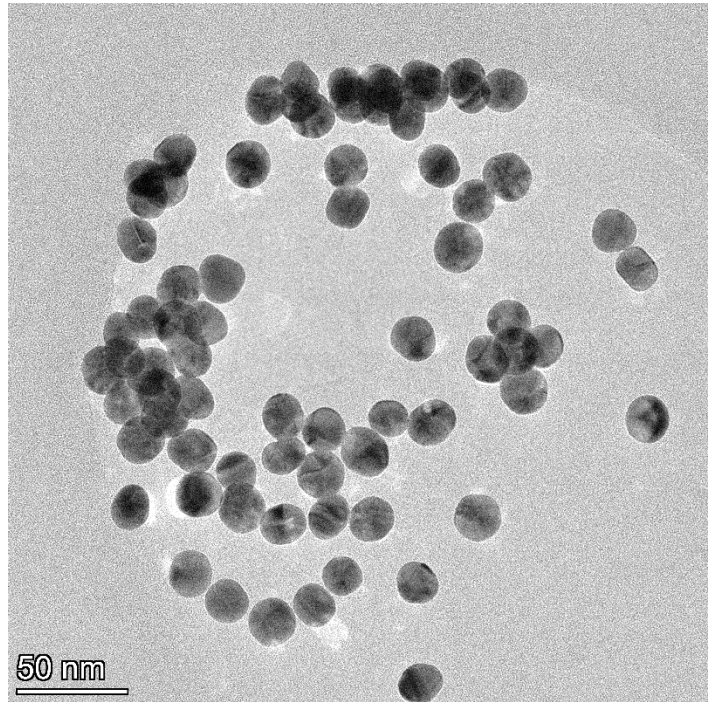
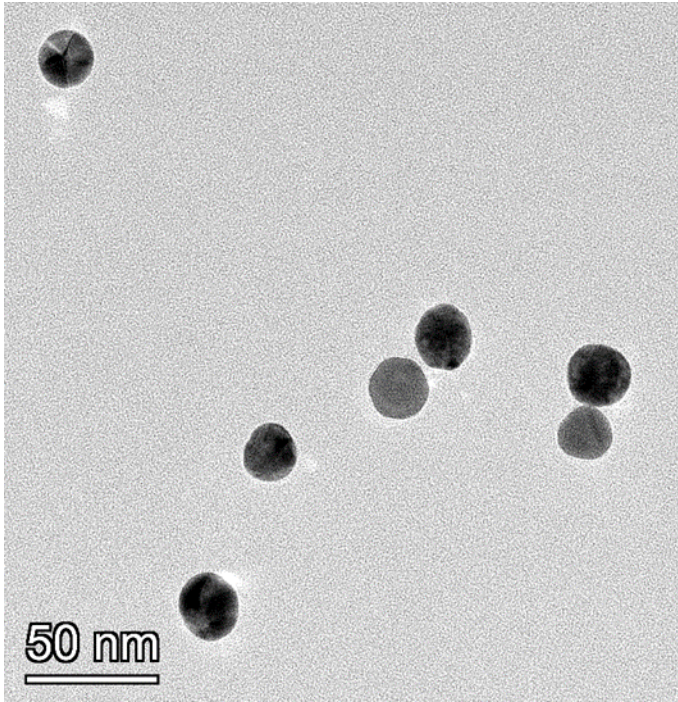
Shake and measure pH before use. Store at 4-25°C away from light. DO NOT FREEZE



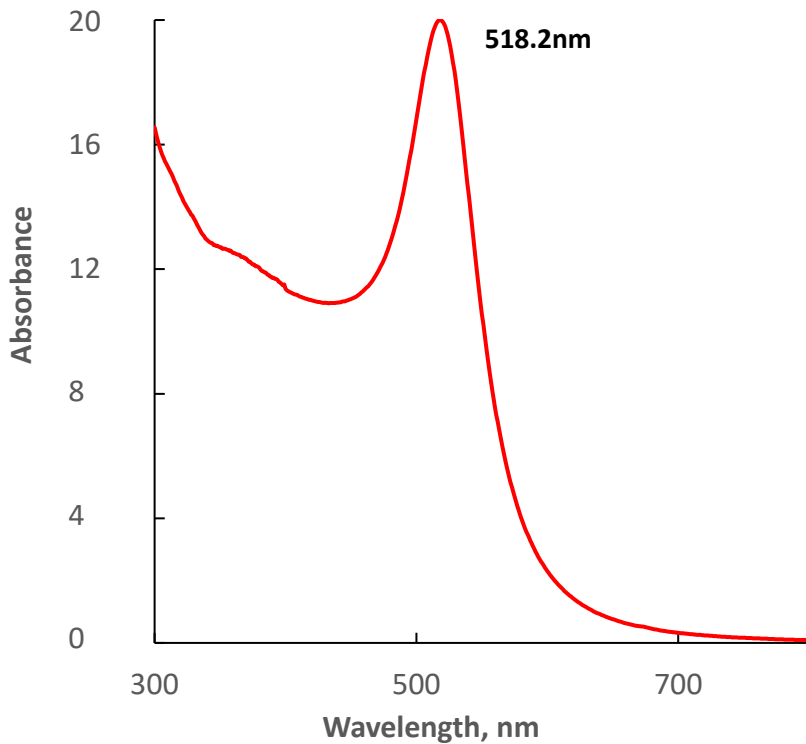
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Optical Properties



Size Distribution

