



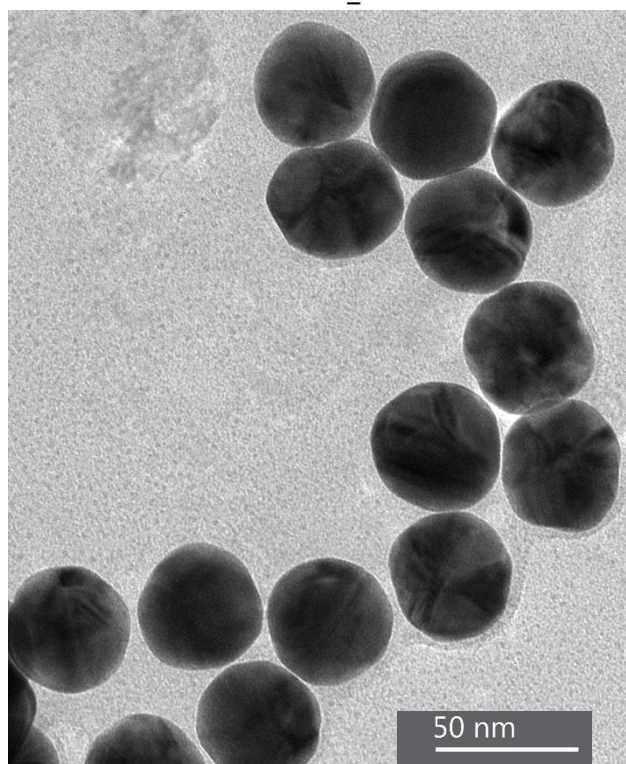
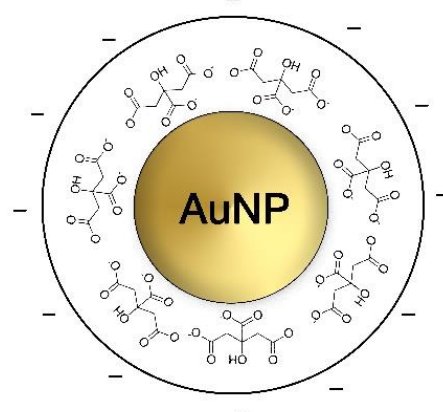
NB-GSPLF-40-CIT-20

“Lateral-Flow-Easy” 40nm Gold Nano-Spheres

Citrate surface, OD=20

**Diameter 40nm,
OD=20,
citrate-coated**

Parameter	Value	Specification
Diameter (TEM):	39.89 ± 0.88 nm	36 – 44 nm
Coefficient of polydispersity:	2.21%	<15%
Optical density (OD):	20.0	19.5 – 20.5
Mass of single particle:	6.414E-13 mg	As reported
Surface of single particle:	4999 nm ²	As reported
Volume of single particle:	33234 nm ³	As reported
Particles concentration:	1.34E+12 particles/ml	As reported
Molar particles concentration:	2.24 nM	As reported
Surface area (TEM):	7.79 m ² /g	As reported
Surface to volume ratio:	0.150 nm ⁻¹	As reported
Mass of gold:	860.3µg/ml	As reported
Hydrodynamic diameter (DLS):	44.27 nm	40 – 50 nm
PdI (DLS):	0.063	<0.150
Zeta-potential:	-41.0 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 before use. Store at 4-25°C away from light. DO NOT FREEZE

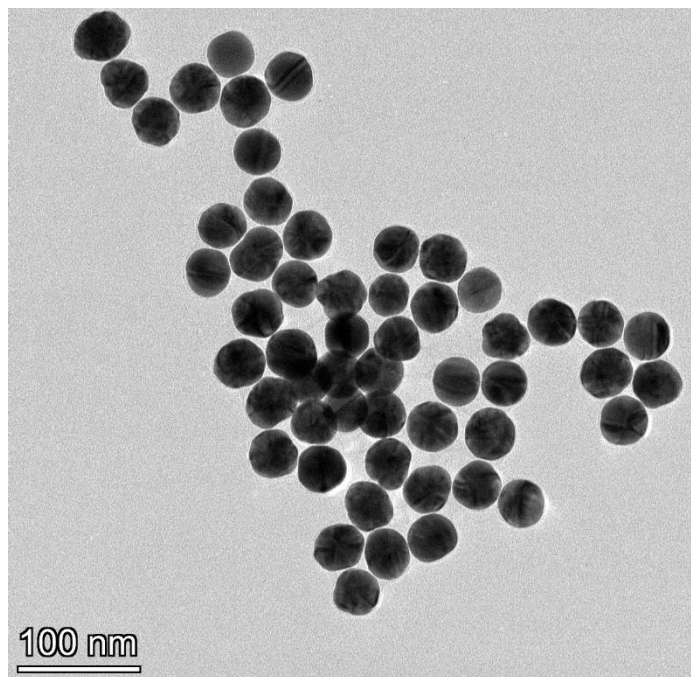
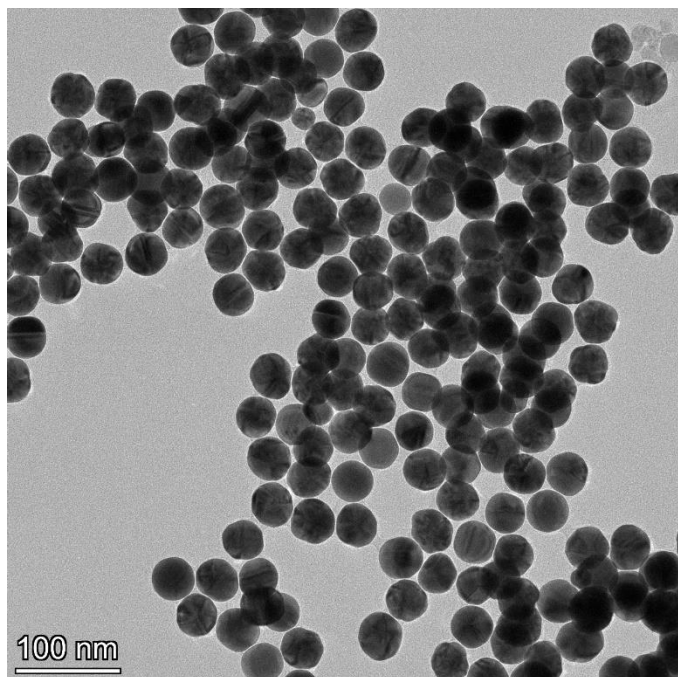


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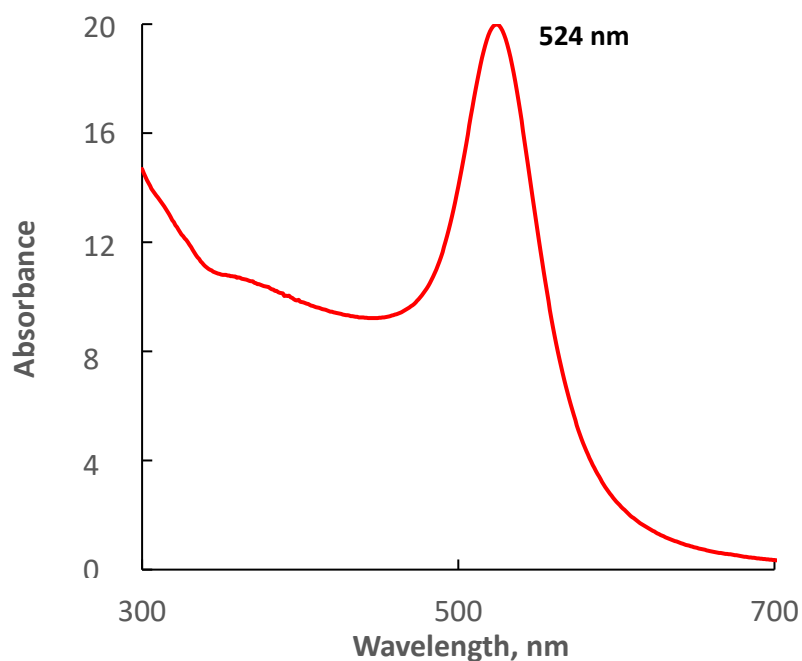
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Optical Properties



Size Distribution

