



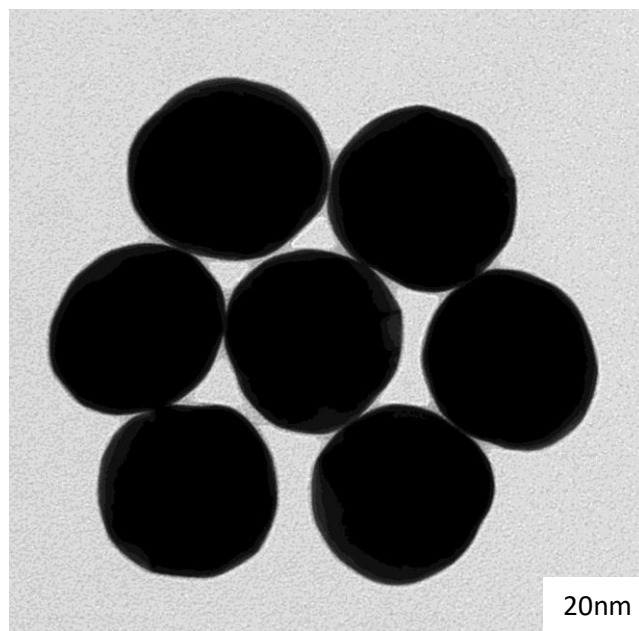
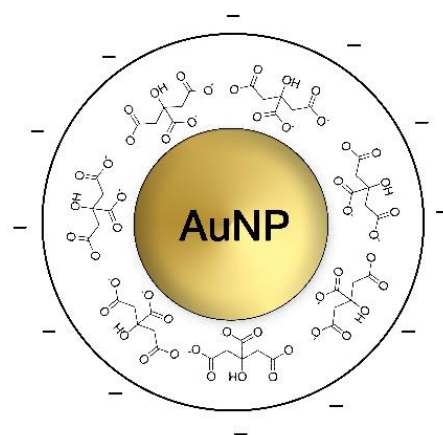
NB-GSPLF-80-CIT-20

“Lateral-Flow-Easy” 80nm Gold Nano-Spheres

Citrate surface, OD=20

**Diameter 80nm,
OD=20,
citrate-coated**

Parameter	Value	Specification
Diameter (TEM):	79.83 ± 1.15 nm	76 – 84 nm
Coefficient of polydispersity:	1.44%	<15%
Optical density (OD):	20.0	19.5 – 20.5
Mass of single particle:	5.141E-12 mg	As reported
Surface of single particle:	2.002E+4 nm ²	As reported
Volume of single particle:	2.664E+5 nm ³	As reported
Particles concentration:	1.46E+11 particles/ml	As reported
Molar concentration:	0.243 nM	As reported
Surface area (TEM):	3.89 m ² /g	As reported
Surface to volume ratio:	0.075 nm ⁻¹	As reported
Mass of gold:	750.0 µg/ml	As reported
Hydrodynamic diameter (DLS):	85.57 nm	80 – 90 nm
PdI (DLS):	0.028	<0.150
Zeta-potential:	-41.5 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)



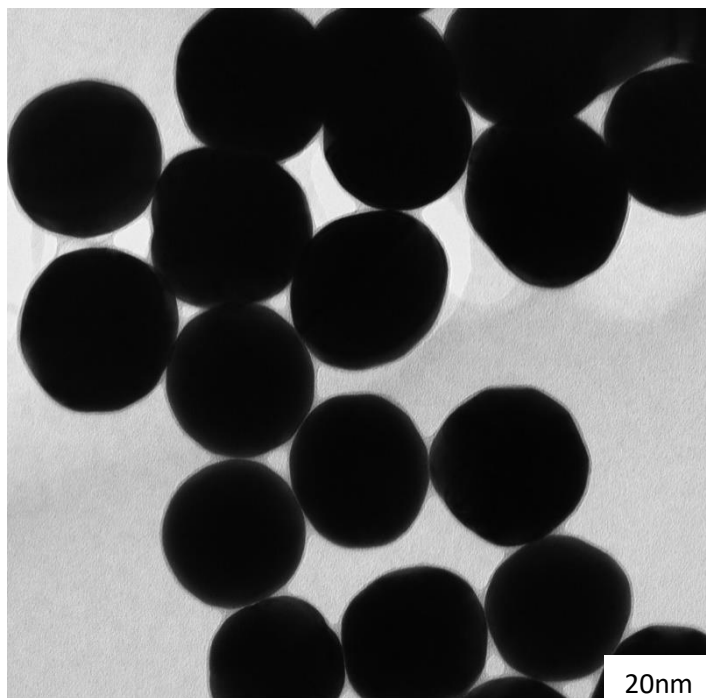
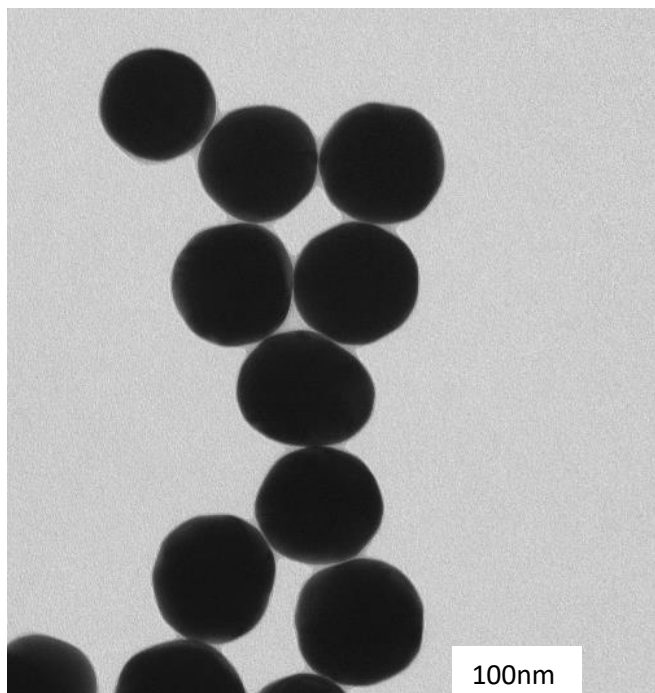
Instrumentation used for characterization

Diameter and size distribution:	Transmission Electron Microscope HITACHI H-7100
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	PerkinElmer Lambda 365+ UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Malvern Zetasizer

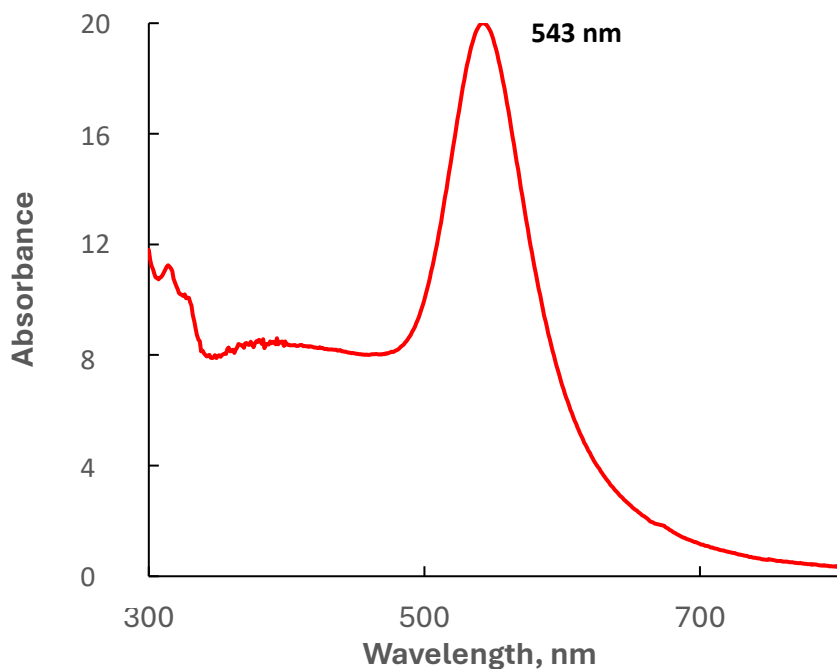
Shake before use. Store at 4-25°C away from light. DO NOT FREEZE

“Lateral-Flow-Easy” 80nm Gold Nano-Spheres

Citrate surface, OD=20



Optical Properties



Size Distribution

