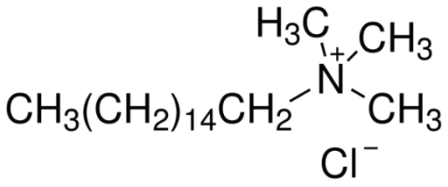
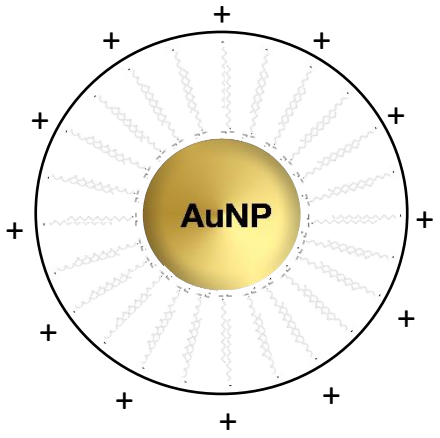
NB-GSPU-30-CTAC-1

NANOBRAND

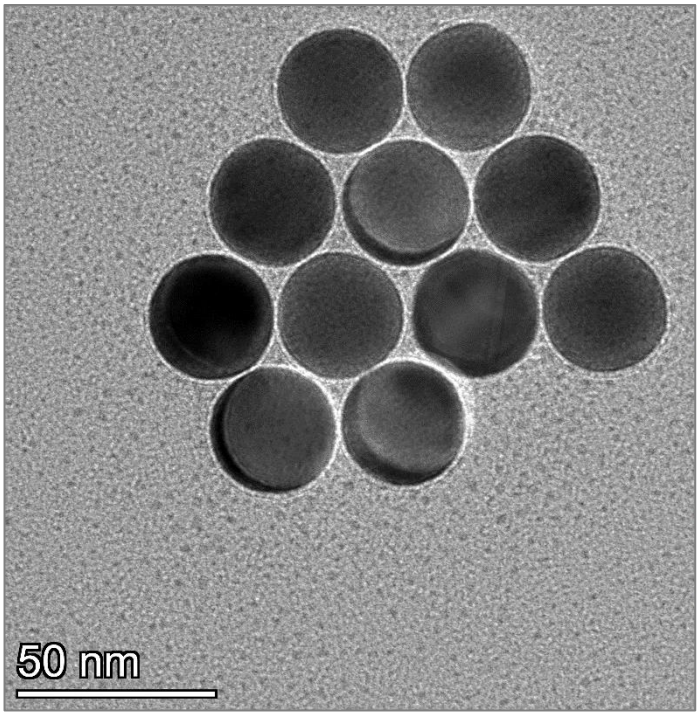
30nm Ultra-monodisperse Gold Nano-Spheres

CTAC
CAS 112-02-7





Diameter (TEM):	30.23 ± 0.50 nm
Coefficient of polydispersity:	1.67%
Mass of single particle:	2.791 E-13 mg
Surface of single particle:	2871 nm^2
Volume of single particle:	1.446 E+4 nm^3
Particles concentration:	1.79 E+11 particles/ml
Molar particles concentration:	0.299 nM
Surface area (TEM):	10.28 m^2/g
Surface to volume ratio:	0.198 nm^{-1}
Mass of gold:	50 µg/ml
Hydrodynamic diameter (DLS):	48.38 nm
pH of the solution:	6 - 7
Particle surface:	CTAC
Particle surface charge:	positive
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 18-25 °C away from light. DO NOT FREEZE.

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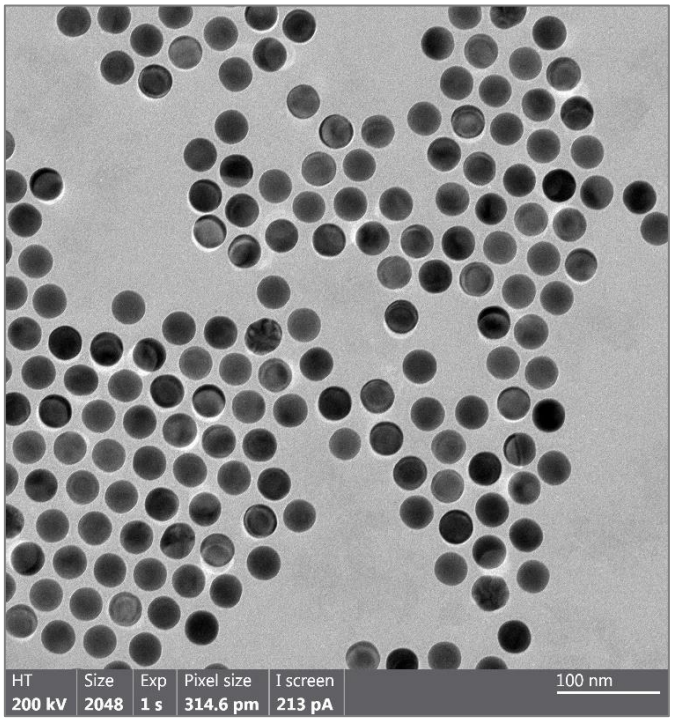
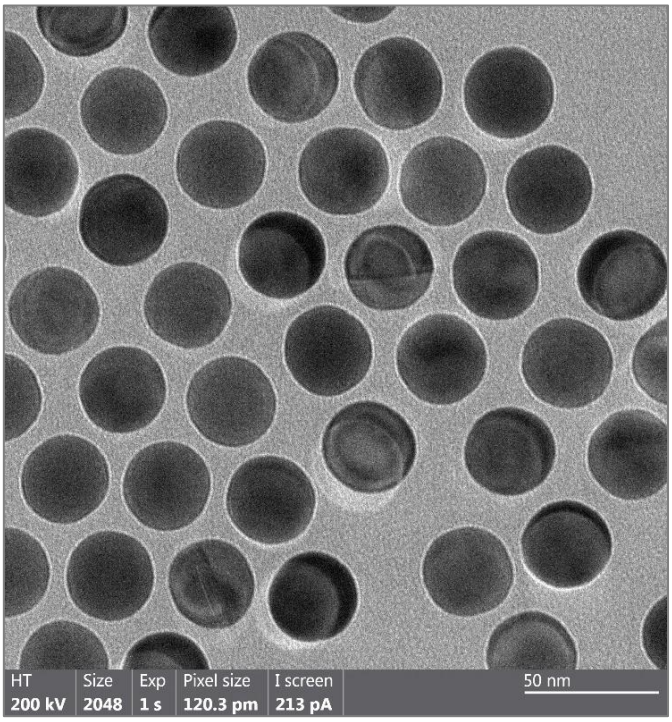
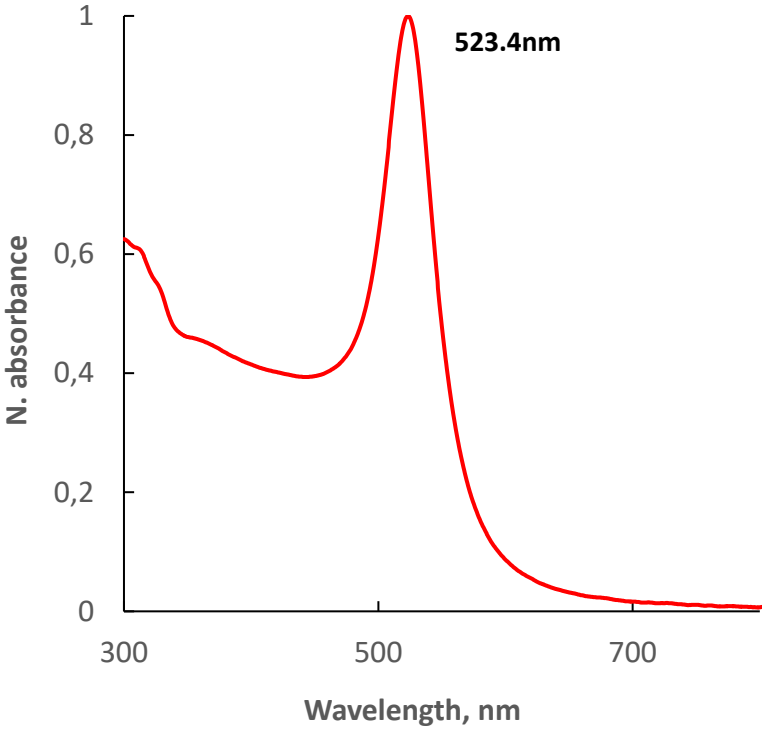
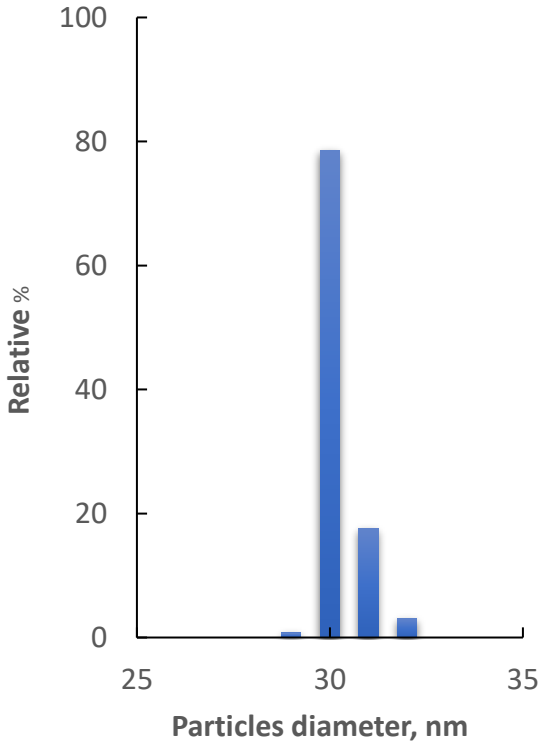




Optical Properties



Size Distribution



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