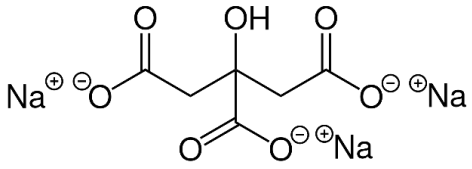
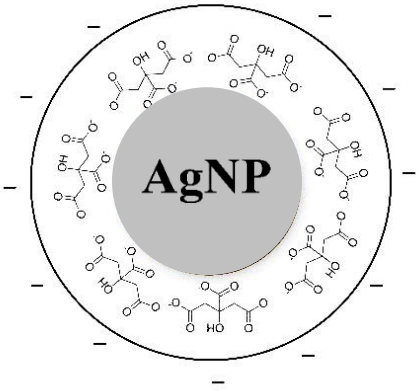
NANOBRAND

Silver nanospheres 125nm, citrate-coated

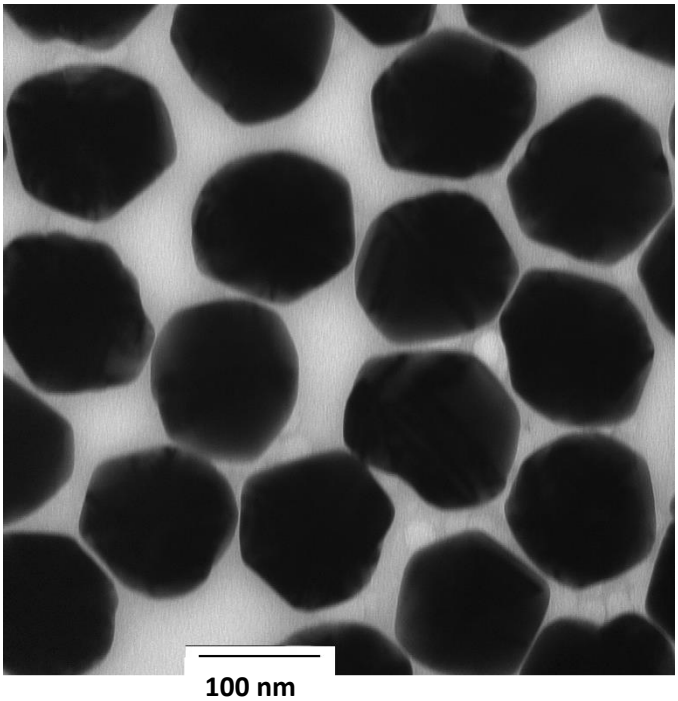
Sodium Citrate
CAS 68-04-2



Silver nanoparticles stabilised with citrate



Diameter (TEM):	124.87 ± 0.95 nm
Coefficient of polydispersity:	0.76 %
Mass of single particle:	1.07 E-11 mg
Surface of single particle:	4.90 E+4 nm^2
Volume of single particle:	1.02 E+6 nm^3
Particle concentration:	4.68 E+9 particles/ml
Molar particles concentration:	0.0078 nM
Mass of silver:	50.0 µg/ml
Surface area per gram:	4.58 m^2/g
Surface to volume ratio:	0. 048 nm^{-1}
Particles surface charge:	negative
pH of the solution:	5.5 – 6.0
Particle surface:	citrate
Solvent:	Milli-Q water (18.1 MΩ-cm)



Instrumentation used for characterization	
Diameter and size distribution:	Transmission Electron Microscope HITACHI H-7100 and TS Talos F200X
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	Thermo Scientific Evolution 220 UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Wyatt Mobius Zetasizer

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

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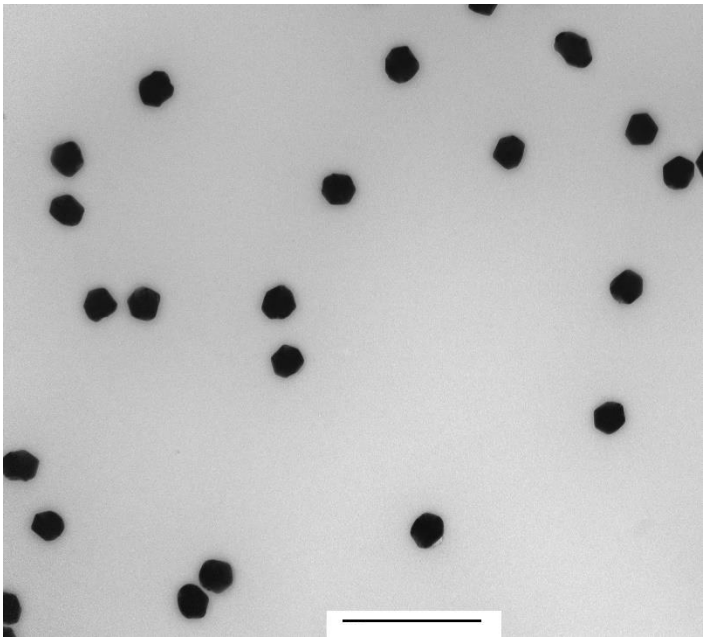
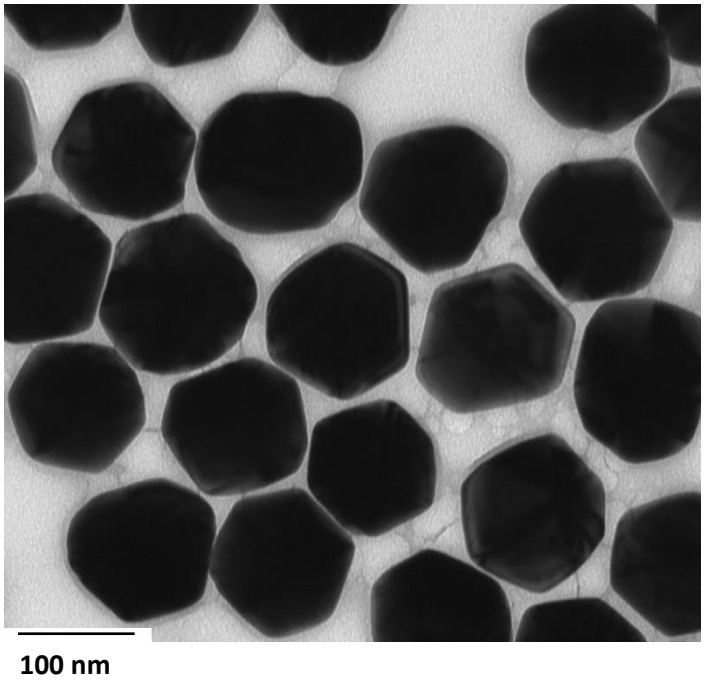
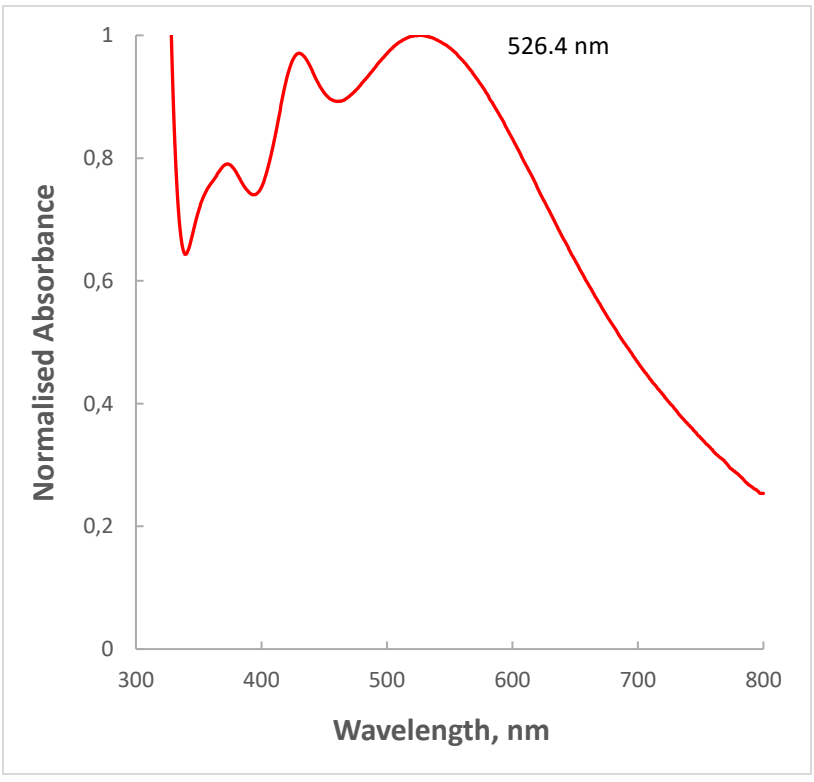
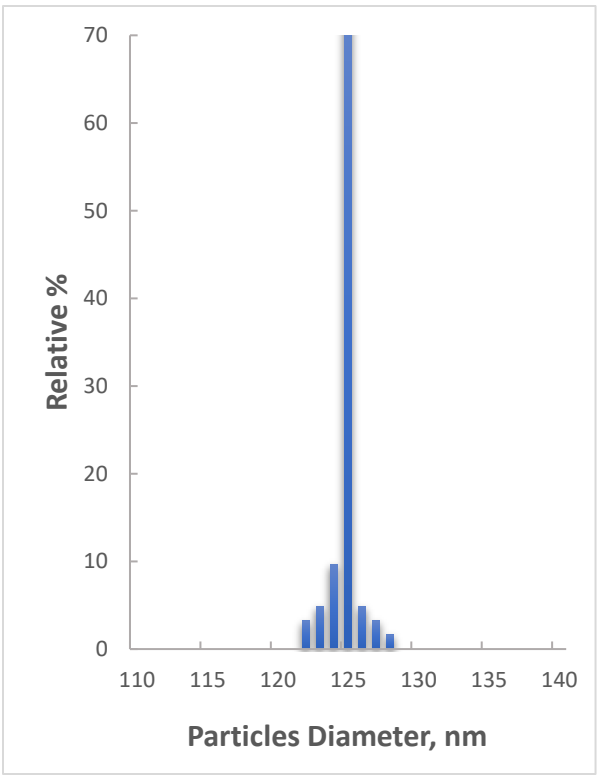




Optical Properties



Size Distribution



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