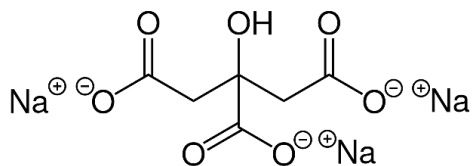




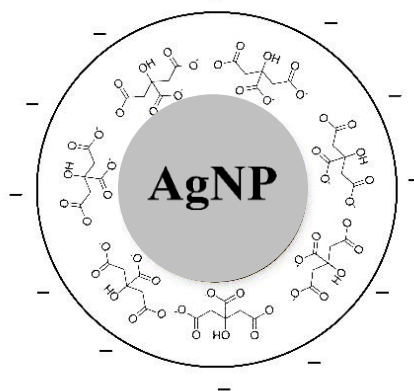
NANOBRAND

## Silver nanospheres 85nm, citrate-coated

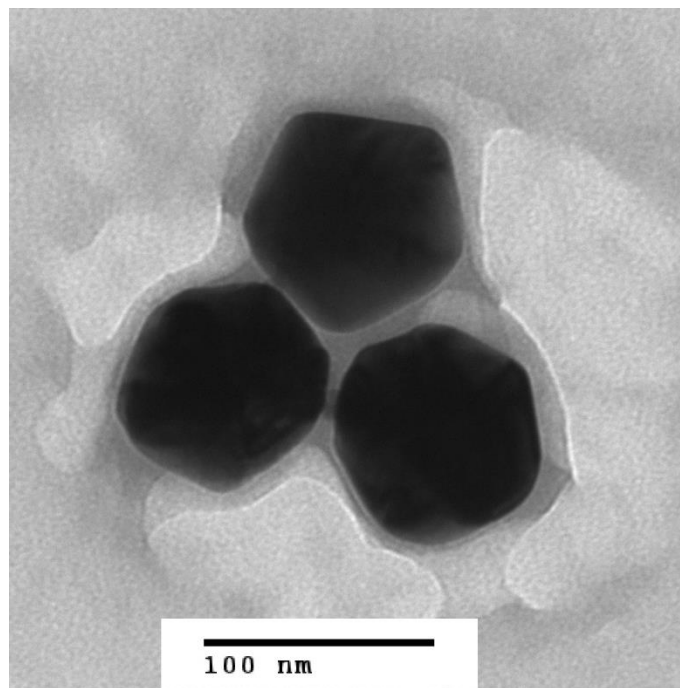
**Sodium Citrate**  
CAS 68-04-2



**Silver nanoparticles stabilised with citrate**



<b>Diameter (TEM):</b>	85.40 ± 1.38 nm
<b>Coefficient of polydispersity:</b>	1.62 %
<b>Mass of single particle:</b>	3.42E-10 mg
<b>Surface of single particle:</b>	2.29E+4 nm <sup>2</sup>
<b>Volume of single particle:</b>	3.26E+5 nm <sup>3</sup>
<b>Particle concentration:</b>	1.46E+10 particles/ml
<b>Molar particles concentration:</b>	0.024 nM
<b>Mass of silver:</b>	50.0 µg/ml
<b>Surface area per gram:</b>	16.56 m <sup>2</sup> /g
<b>Surface to volume ratio:</b>	0.070nm <sup>-1</sup>
<b>Particles surface charge:</b>	negative
<b>pH of the solution:</b>	5.5 – 6.0
<b>Particle surface:</b>	citrate
<b>Solvent:</b>	Milli-Q water (18.1 MΩ-cm)



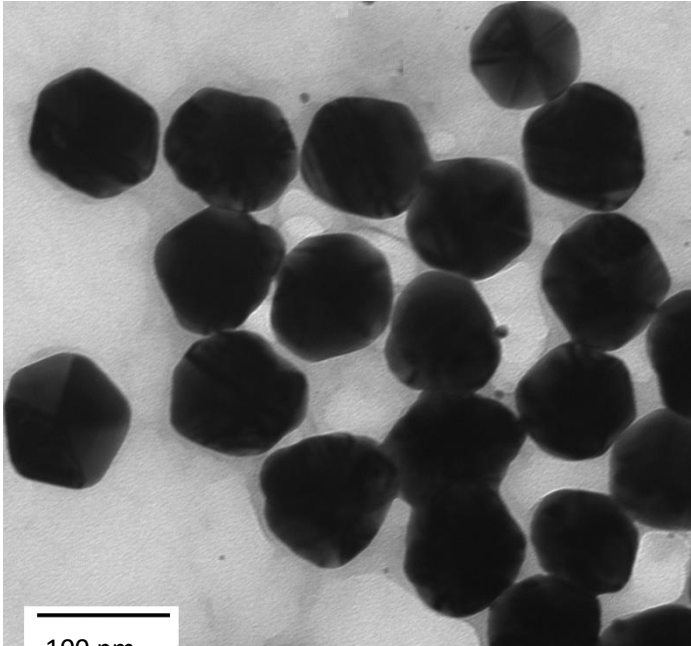
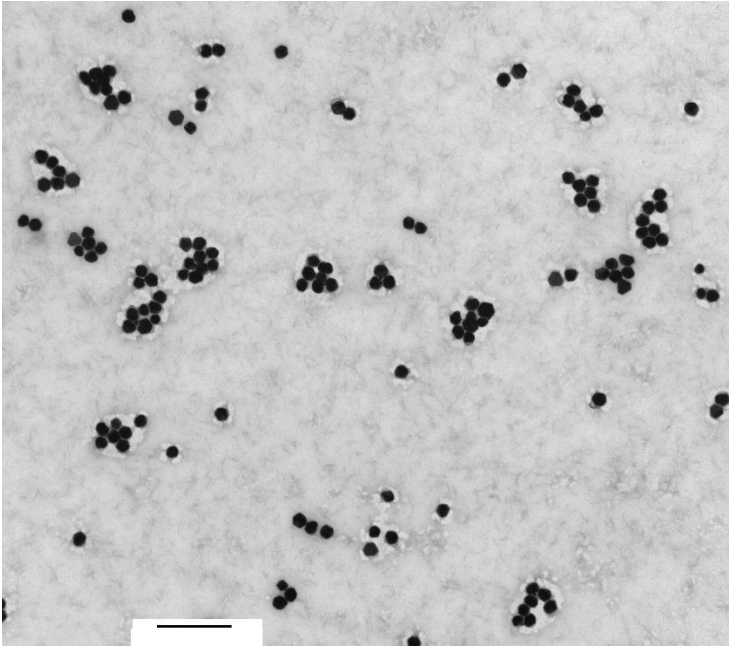
### Instrumentation used for characterization

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

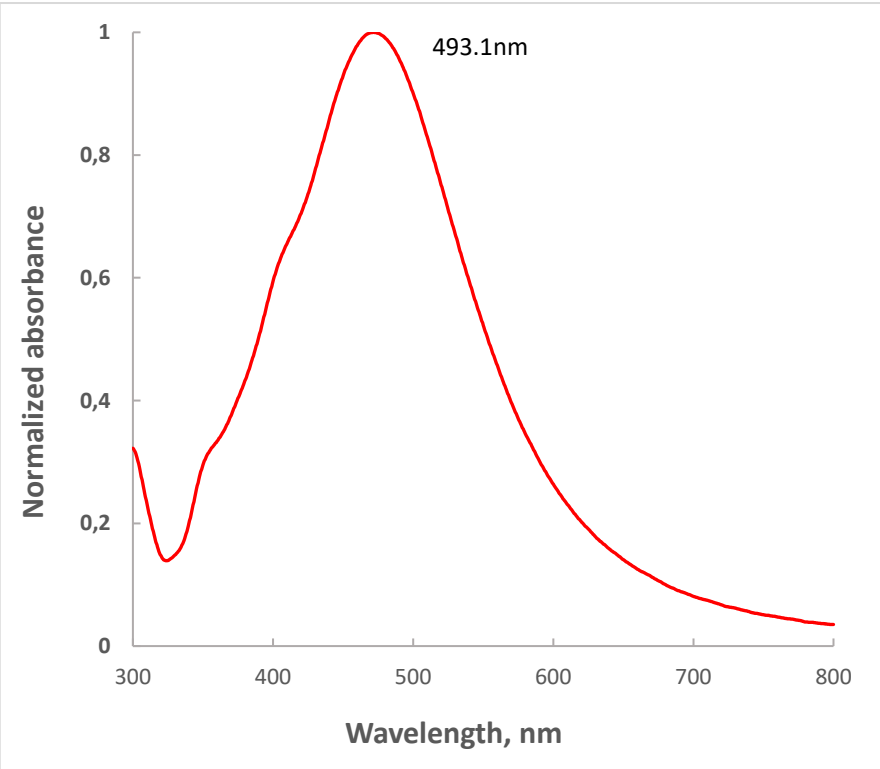
Store at 4-25°C away from light. DO NOT FREEZE. Shake before use.



# Silver nanospheres 85nm, citrate-coated



Optical Properties



Size Distribution

