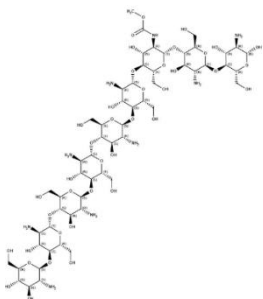


Silver nanospheres, chitosan-coated

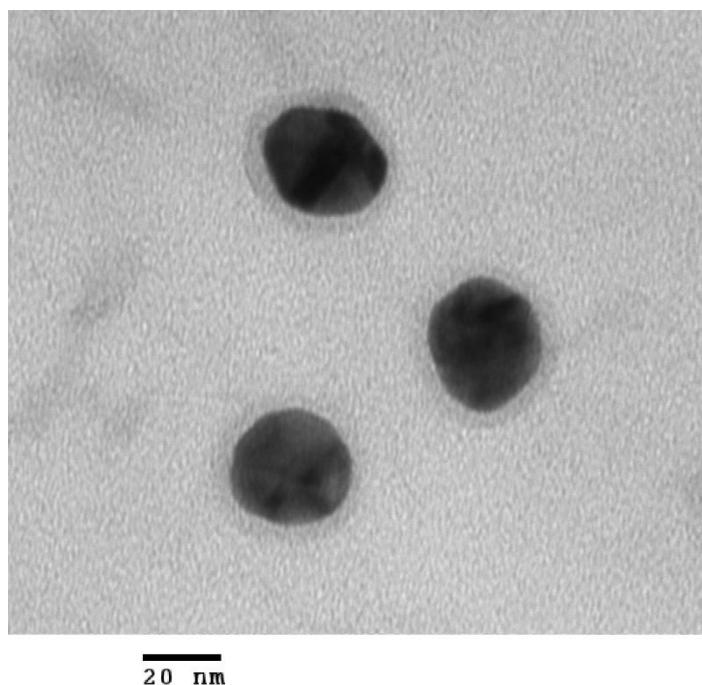
Chitosan 85% deacetylated
CAS 9012-76-4



Silver nanoparticles coated with
chitosan



Diameter (TEM):	25.01 ± 1.74 nm
Coefficient of polydispersity:	6.95 %
Mass of single particle:	8.59 E-14 mg
Surface of single particle:	1965 nm ²
Volume of single particle:	8191 nm ³
Particle concentration:	3.53E+11 particles/mL
Molar particles concentration:	0.588 nM
Mass of silver:	30.3 µg/ml
Surface area per gram:	22.87 m ² /g
Surface to volume ratio:	0.24nm ⁻¹
Particles surface charge:	positive
Silver precursor:	Silver salt USP grade
pH of the solution:	5.5 – 6.0
Particle surface:	chitosan
Solvent:	Milli-Q water (18.1 MΩ-cm)

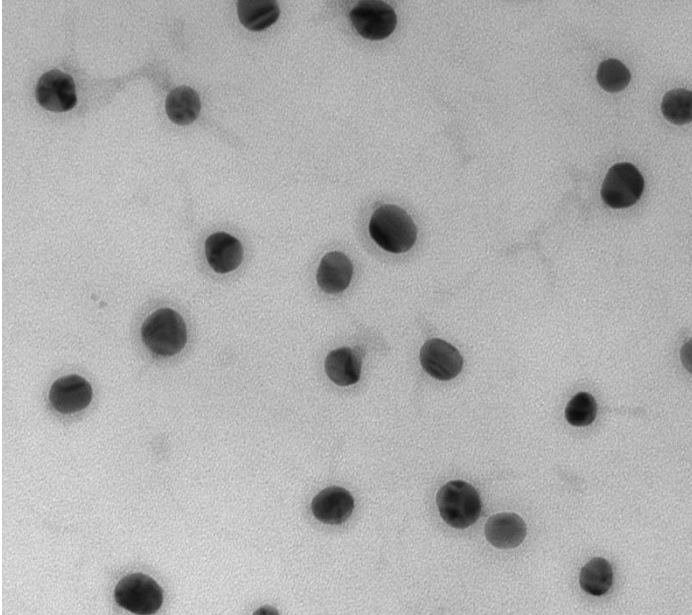


Instrumentation used for characterization

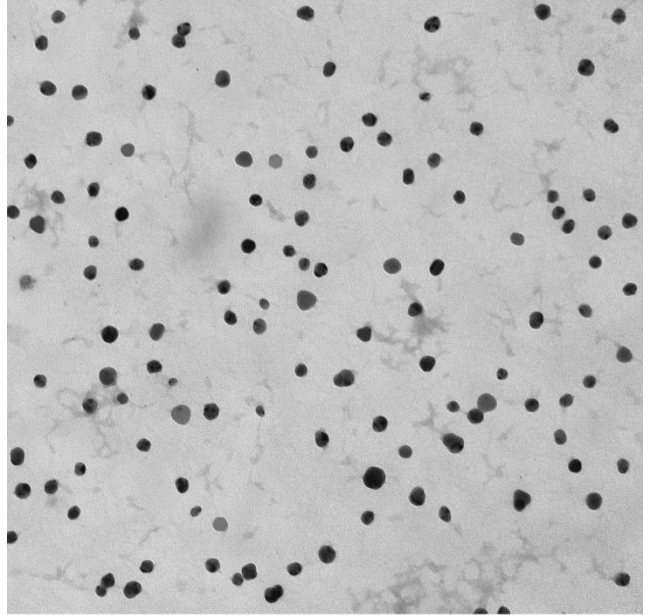
Diameter and size distribution:	Transmission Electron Microscope HITACHI H-7100
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	Thermo Scientific Evolution 220 UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Wyatt Mobius Zetasizer

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

Silver nanospheres, chitosan-coated

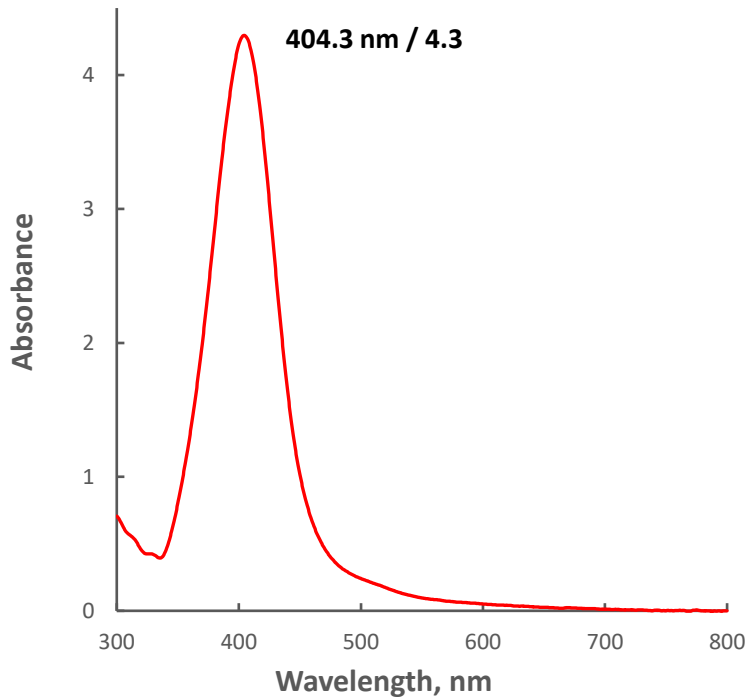


20nm



100nm

Optical Properties



Size Distribution

