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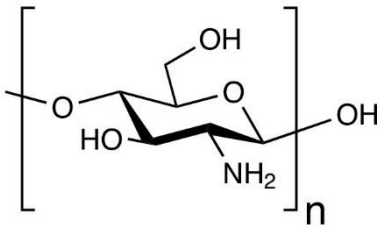
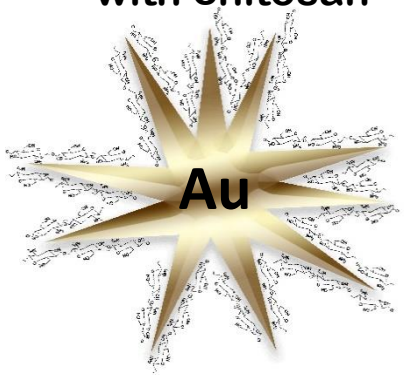
Gold nanoflowers Au_{560}, chitosan-coated

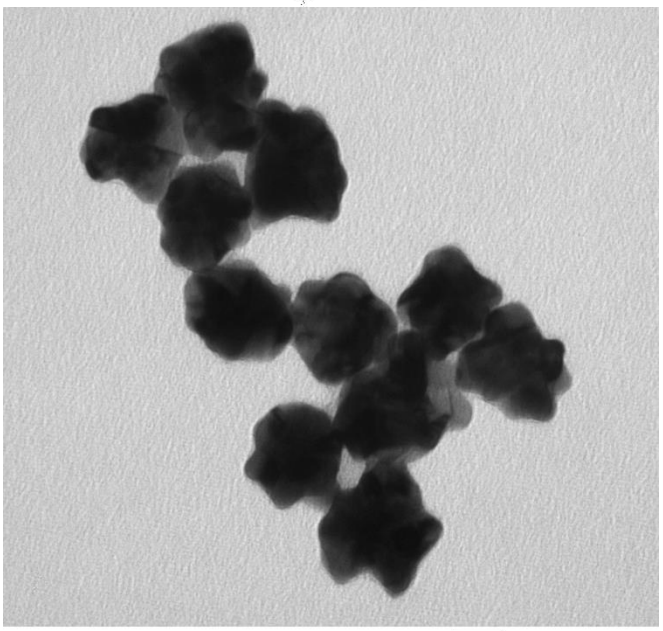
Chitosan 85% deacetylated
CAS 9012-76-4



Gold nanoflowers coated with chitosan



Diameter (TEM), measured core to branch:	40.2 ± 16.4nm
Mass of single particle:	6.58E-13 mg
Particle concentration:	5.32E+10 particles/mL
Molar particles concentration:	0.089 nM
OD:	1
UV-vis peak max at:	560nm
Mass of gold:	35 µg/ml
Particles surface charge:	positive
Particle surface:	Chitosan
Gold purity:	99.99 %
Solvent:	Milli-Q water (18.1 MΩ-cm)



20nm

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. If precipitation occurs, shake the sample.

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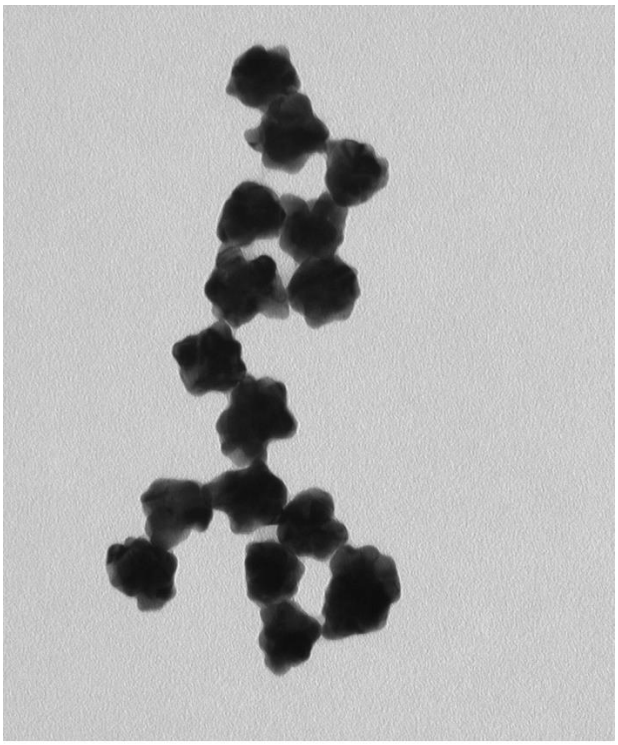
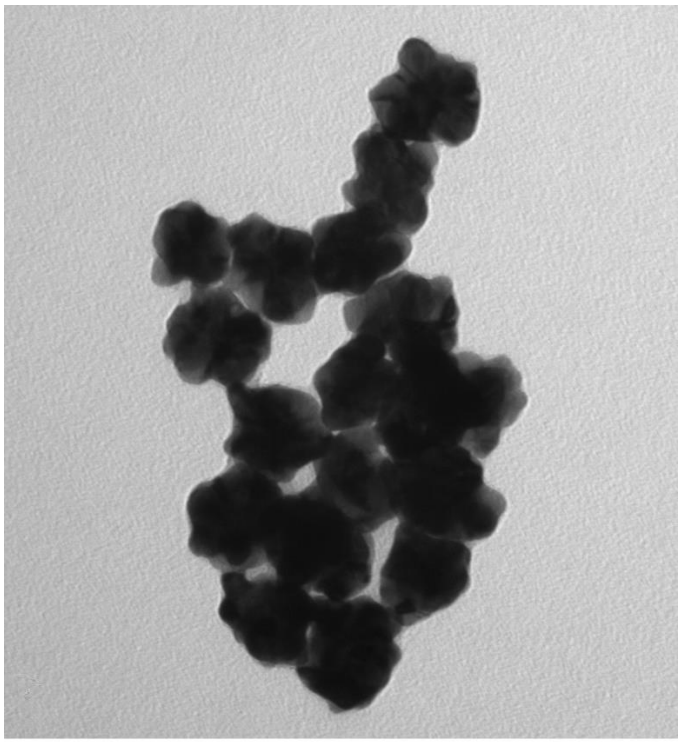
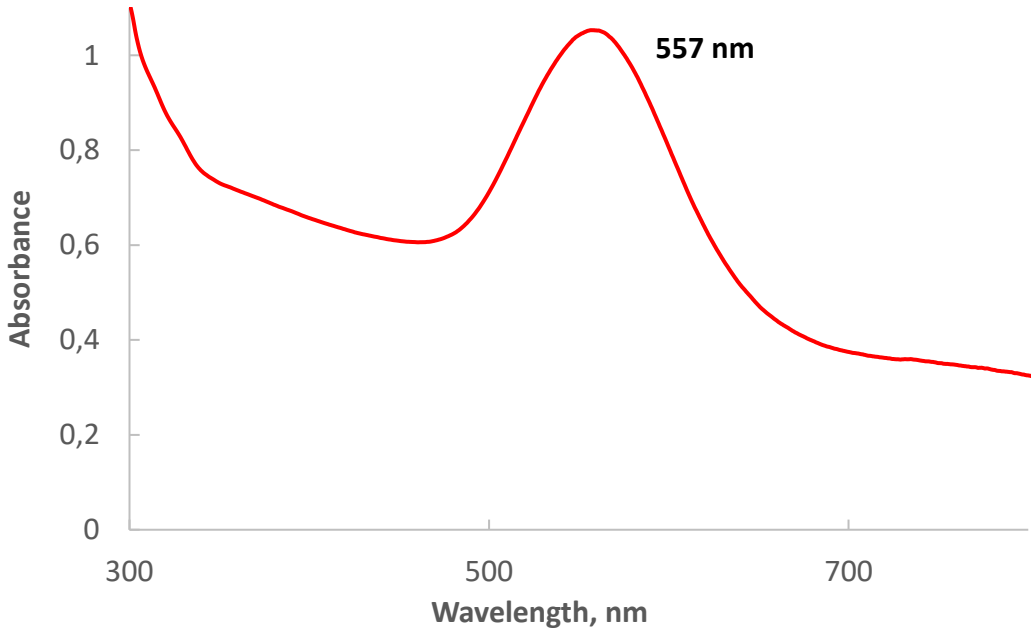




Optical Properties



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