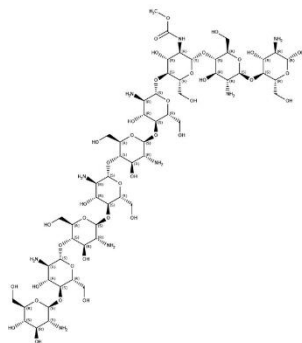




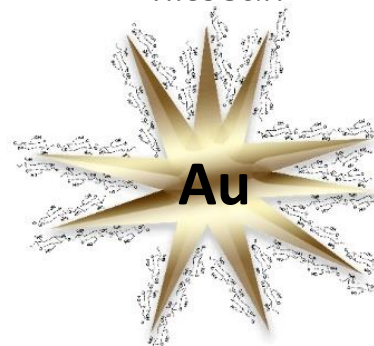
NANOBRAND

Gold nanostars Au₆₄₀, chitosan-coated

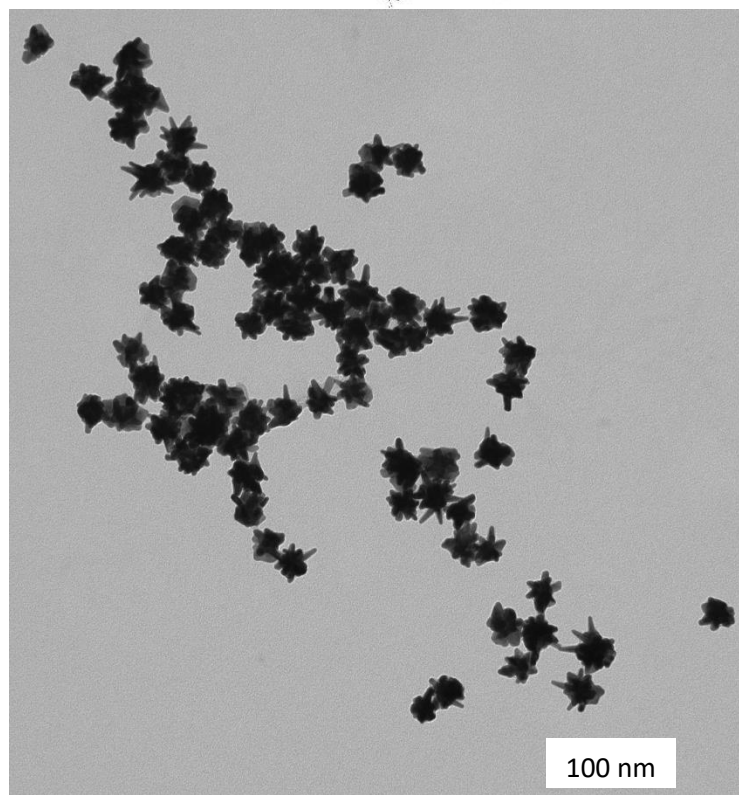
Chitosan 85%
deacetylated
CAS 9012-76-4



Gold nanostars coated with
chitosan



Average core size, (TEM)	39.03nm ± 6.12nm (15.7%)
Average branches length, (TEM)	15.8nm ± 6.0nm
Average effective diameter*	57.38nm
Mass of gold:	41.2 µg/mL
OD:	1.1
UV-vis peak max at:	640nm
Gold purity:	99.99 %
Particle surface:	Chitosan, M=1526.46 g/M
Solvent:	Milli-Q water (18.1 MΩ-cm)
Particles surface charge:	positive
Particle concentration*:	2.16E+10 particles/mL
Molar particles concentration*:	0.036 nM
Mass of a single particle*:	1.909E-12 mg



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

NanoBrand
2300 Alfred-Nobel
Montreal Quebec H4S 2A4 CANADA

nanobrand.com

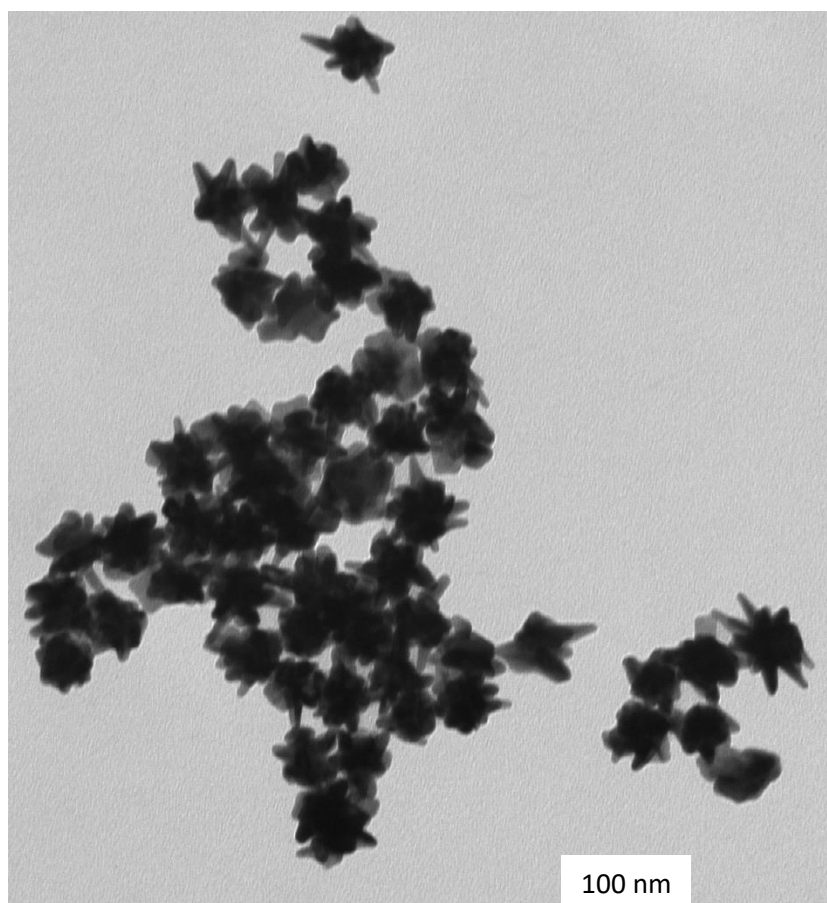
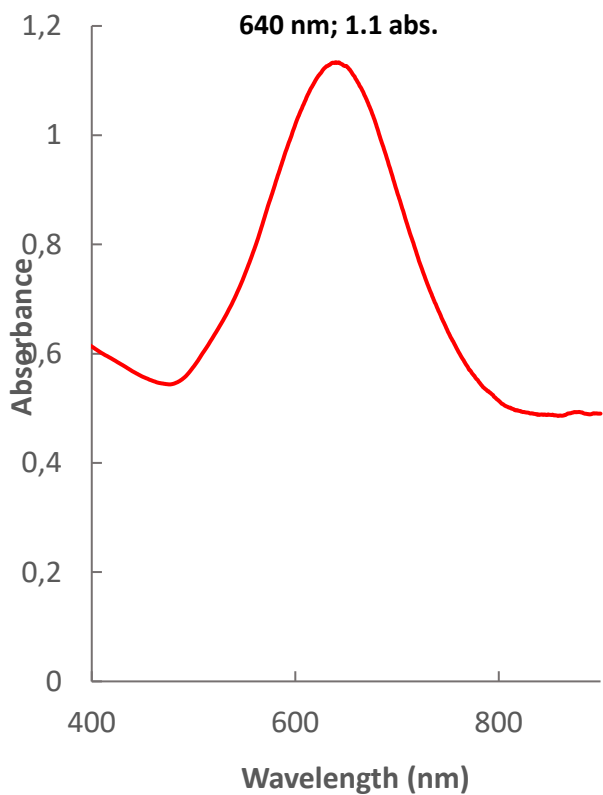
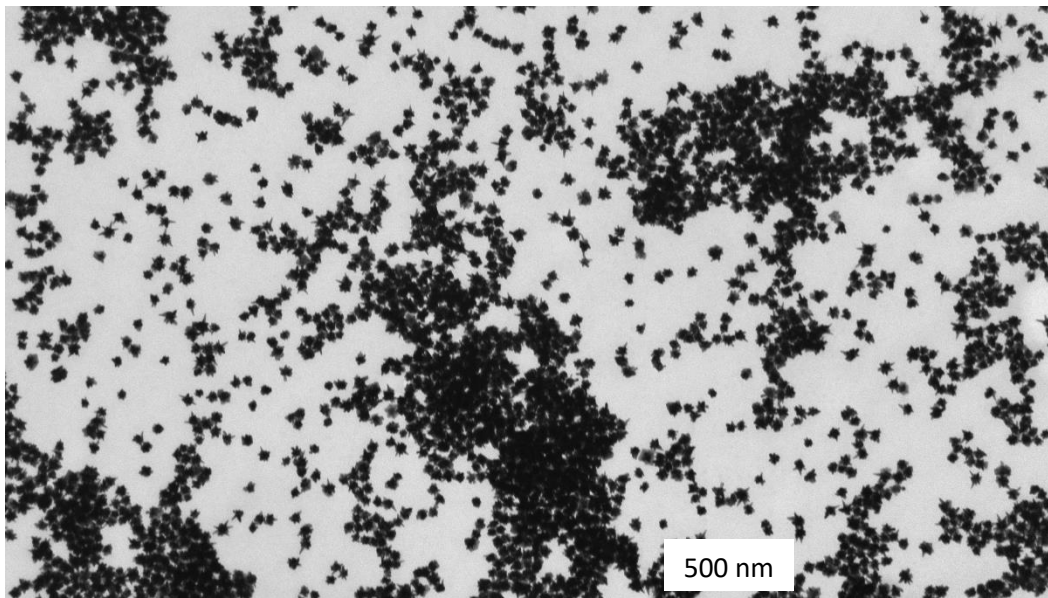
customer@nanobrand.com

Phone: 514 506-1560



NANOBRAND

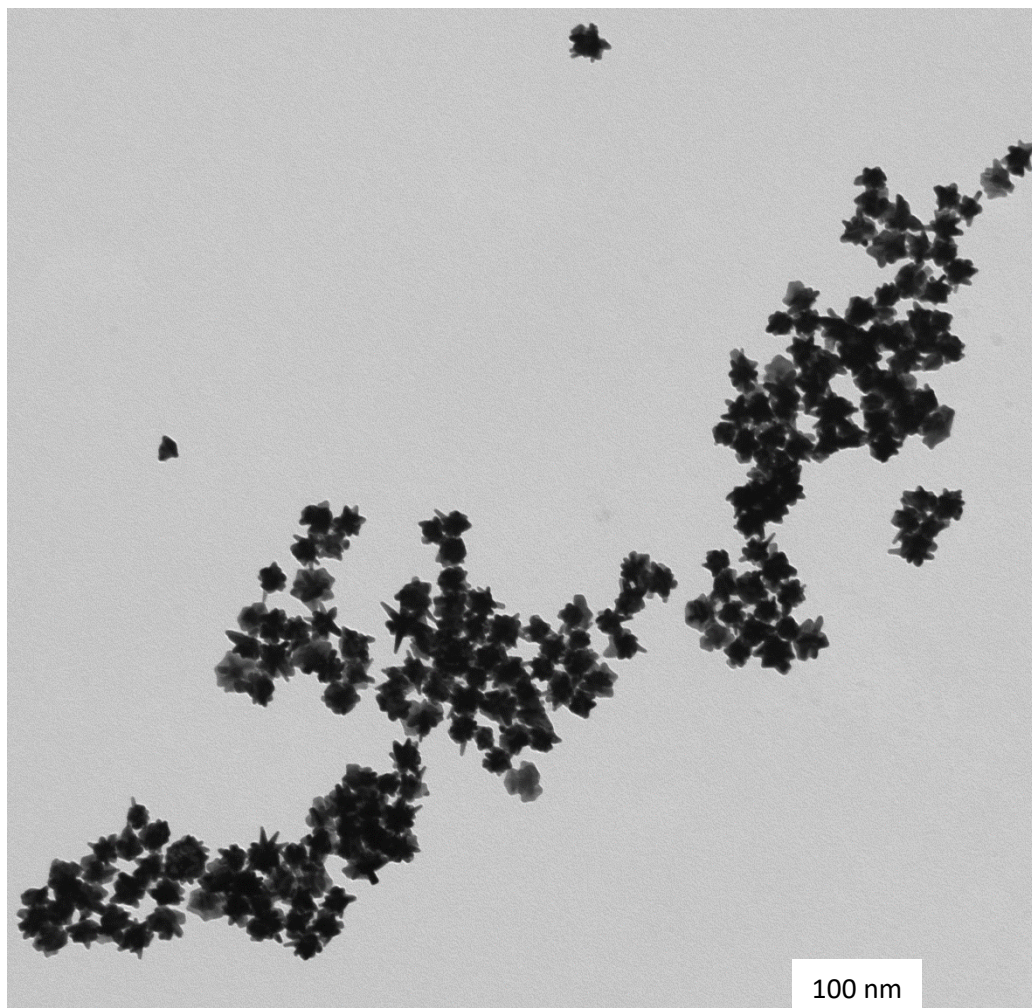
Gold nanostars Au₆₄₀, chitosan-coated





Gold nanostars Au₆₄₀, chitosan-coated

Average number of spikes per nanoparticle	24
Surface of single particle, nm ²	10344.7
Mass of chitosan attached to each particle, mg	4.73E-13
Mass (chitosan)/mass (gold) for single particle	0.248
Number of chitosan molecules attached to each particle	1.866E+05
Number of N atoms, attached to each particle	1.679E+06
Number of N atoms per nm ² of surface	162.4
Number of chitosan molecules per nm ² of surface	18.0





NANOBRAND

Gold nanostars Au₆₄₀, chitosan-coated

