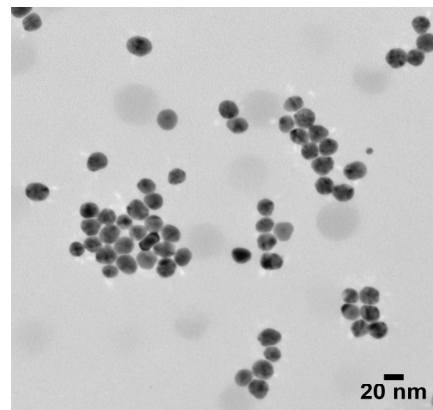
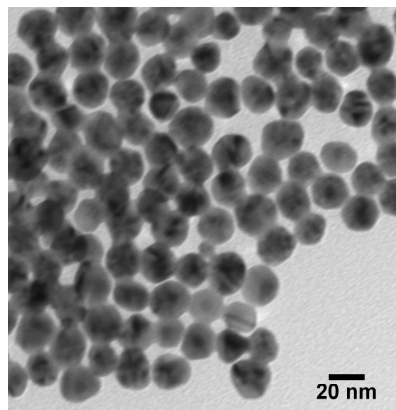
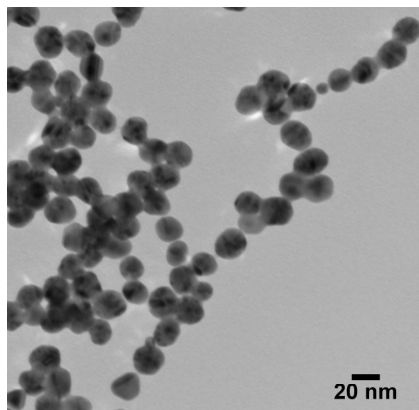


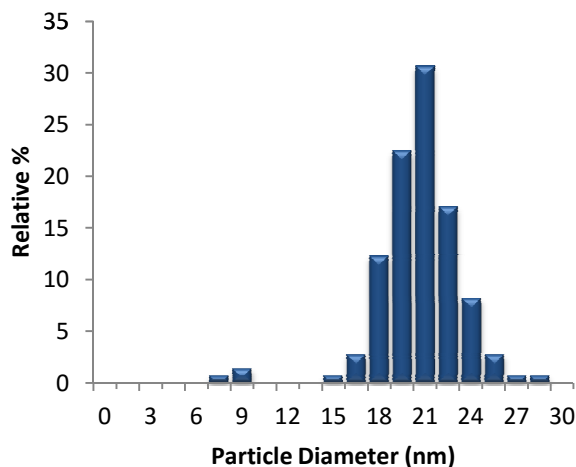
20 nm Silver Shelled Gold Nanospheres, Citrate, NanoXact™

Lot Number: DAG1738

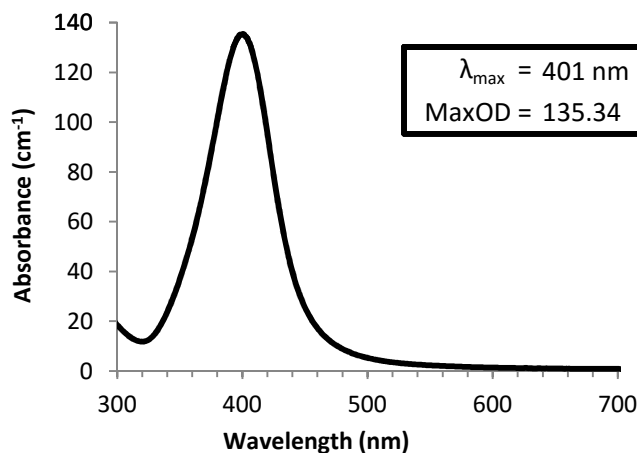
Total Diameter (TEM):	19.9 ± 2.8 nm	Mass Concentration (Ag)	1.07 mg/mL
Coefficient of Variation:	14.2 %	Hydrodynamic Diameter:	23 nm
Core Diameter (TEM):	6.6 ± 0.5 nm	Zeta Potential:	-39 mV
Shell Thickness (Calc'd):	6.4 nm	pH of Solution:	7.1
Surface Area (Calc'd):	115.3 m ² /g	Particle Surface:	Sodium Citrate
Particle Concentration:	2.6E+13 particles/mL	Solvent:	Aqueous 2mM Citrate
Total Mass Conc. (Au/Ag):	1.15 mg/mL	Mass Concentration (Au):	0.087 mg/mL



Size Distribution



Optical Properties



Characterization Instrumentation

Diameter and Size Statistics:

Mass Concentration:

Spectral Properties:

Hydrodynamic Diameter/Zeta Potential:

JEOL 1010 Transmission Electron Microscope

Thermo Fisher X Series 2 ICP-MS

Agilent 8453 UV-Visible Spectrometer

Malvern Zetasizer Nano ZS.

Storage: 2-8 °C away from light. DO NOT FREEZE.