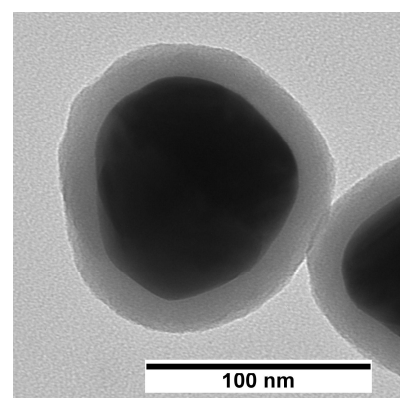
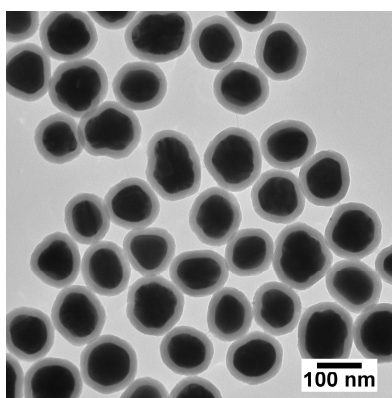
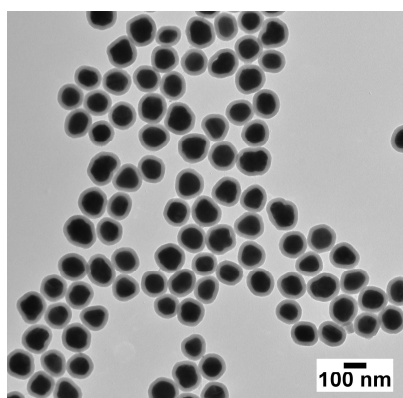
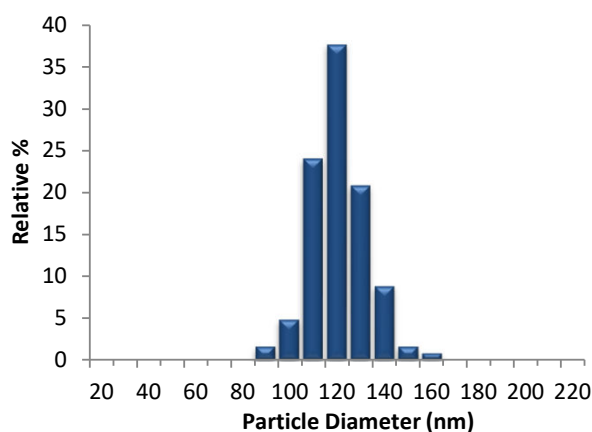
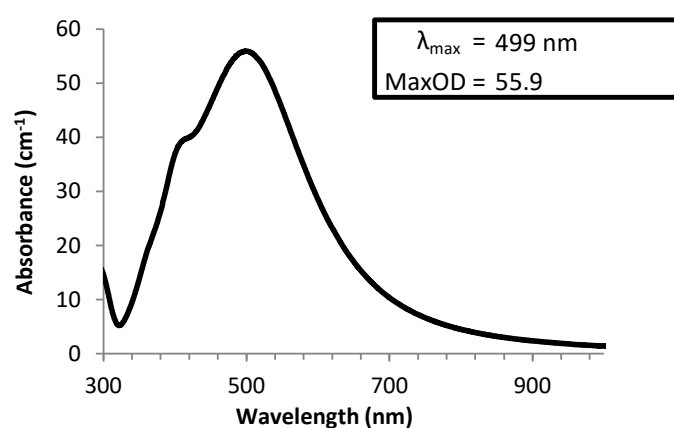


Silica Shelled 100 nm Silver Nanospheres, NanoXact™

Product Number: AGSH100
Lot Number: LBE0107

Total Diameter ± Std.Dev (TEM):	126 ± 12 nm	Hydrodynamic Diameter:	144 nm
Coefficient of Variation:	9.1 %	Zeta Potential:	-37 mV
Core Diameter ± Std.Dev (TEM):	92 ± 12 nm	Zeta pH: 5.9	Zeta Solvent: USP Purified Water
Shell Thickness (TEM):	17 nm	Particle Surface:	Silanol
Surface Area (Calc'd):	8.6 m ² /g	Solvent:	Ethanol
Particle Concentration (Calc'd):	2.4E+11 particles/mL	Mass Concentration (Ag):	1.06 mg/mL


Size Distribution

Optical Properties


Characterization Instrumentation

Diameter and Size Statistics:	JEOL 1010 Transmission Electron Microscope; Image J
Mass Concentration:	Thermo Fisher X Series 2 ICP-MS
Spectral Properties:	Agilent 8453 UV-Visible Spectrometer
Hydrodynamic Diameter/Zeta Potential:	Malvern Zetasizer Nano ZS
pH:	Horiba - Laqua Twin pH Meter

Shake vigorously before use. Bath sonicate if needed. Storage: 2-8 °C away from light. **DO NOT FREEZE.**

To minimize ethanol evaporation, store in a cool place, minimize bottle head space and cap tightly.