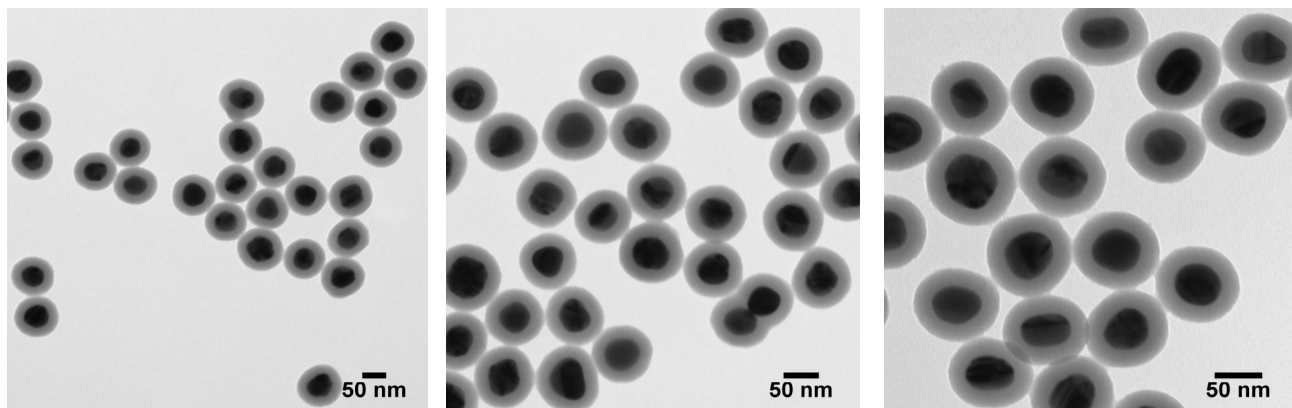


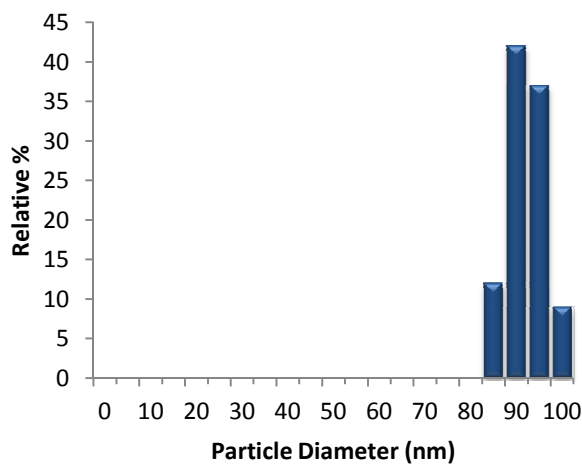
Aminated Silica Shelled 50 nm NanoXact™ Silver

Lot Number: JCP1446

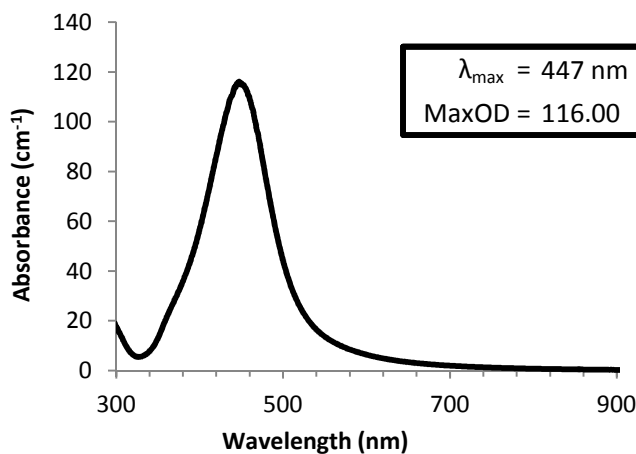
Total Diameter (TEM):	89.6 ± 3.9 nm	Mass Concentration (Ag):	1.10 mg/mL
Coefficient of Variation:	4.3 %	Hydrodynamic Diameter:	124 nm
Core Diameter (TEM):	49.6 ± 4.3 nm	Zeta Potential:	50 mV
Shell Thickness (TEM):	20.0 nm	Zeta pH:	4.22
Surface Area (Calc'd):	18.5 m ² /g	Zeta Solvent:	Mill-Q H2O
Particle Concentration:	1.6E+12 particles/mL	Particle Surface:	Amine Terminated
		Solvent:	Ethanol



Size Distribution



Optical Properties



Characterization Instrumentation

Diameter and Size Statistics:	JEOL 1010 Transmission Electron Microscope
Mass Concentration:	Thermo Fisher X Series 2 ICP-MS
Spectral Properties:	Agilent 8453 UV-Visible Spectrometer
Hydrodynamic Diameter/Zeta Potential:	Malvern Zetasizer Nano ZS.

Shake vigorously before use. Bath sonicate if needed. Storage: 4-8 °C away from light.

DO NOT FREEZE.