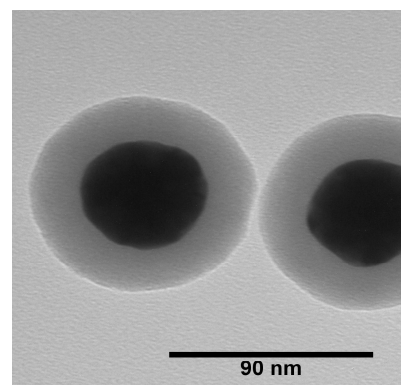
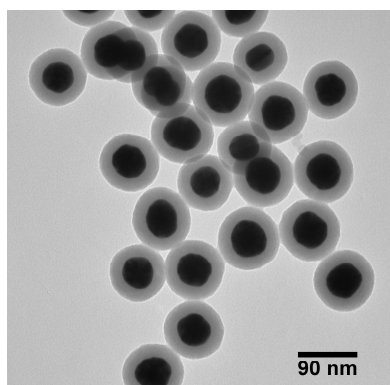
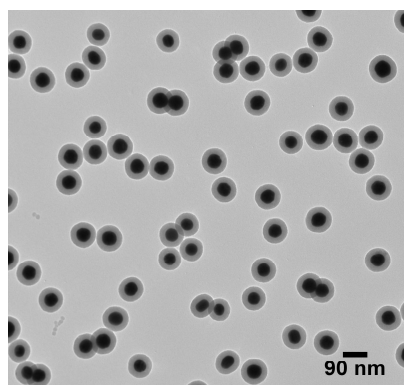


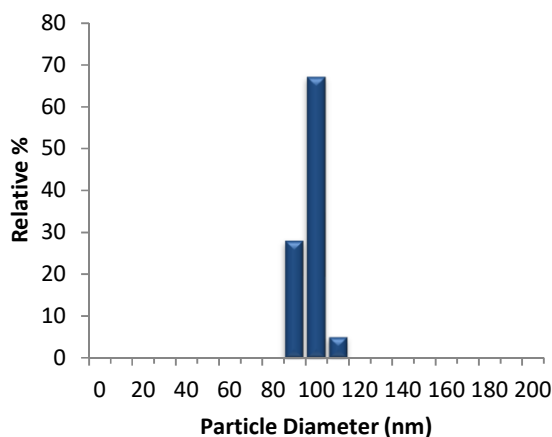
Silica Shelled 50 nm Gold Nanospheres, Aminated, NanoXact™

Product Number: AUAH50
Lot Number: PSK0151

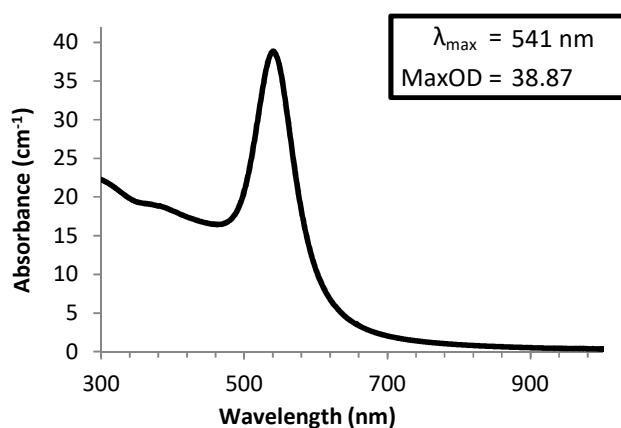
Total Diameter ± Std.Dev (TEM):	93 ± 5 nm	Hydrodynamic Diameter:	126 nm
Coefficient of Variation:	5.6 %	Zeta Potential:	+ 33.8 mV
Core Diameter (TEM):	52 ± 5 nm	Zeta pH: 4.91	Zeta Solvent: 2 mM Acetate
Shell Thickness (TEM):	21 nm	Particle Surface:	Aminated/Cationic
Surface Area (Calc'd):	12.5 m ² /g	Solvent:	Ethanol
Particle Concentration (Calc'd):	7.5E+11 particles/mL	Mass Concentration (Au):	1.05 mg/mL



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: 2-8 °C. DO NOT FREEZE.