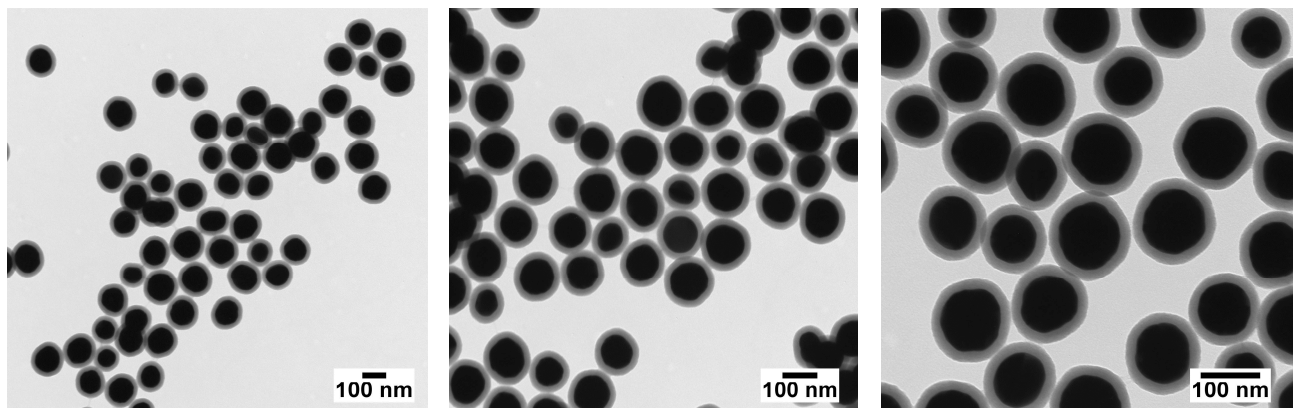


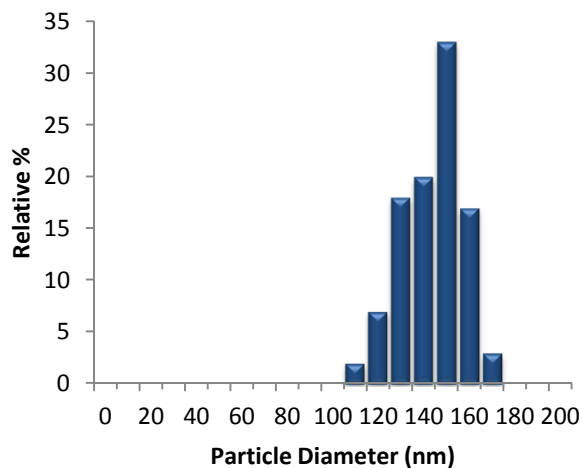
Silica Shelled 100 nm Gold Nanospheres, Aminated, NanoXact™

Lot Number: HKE0255

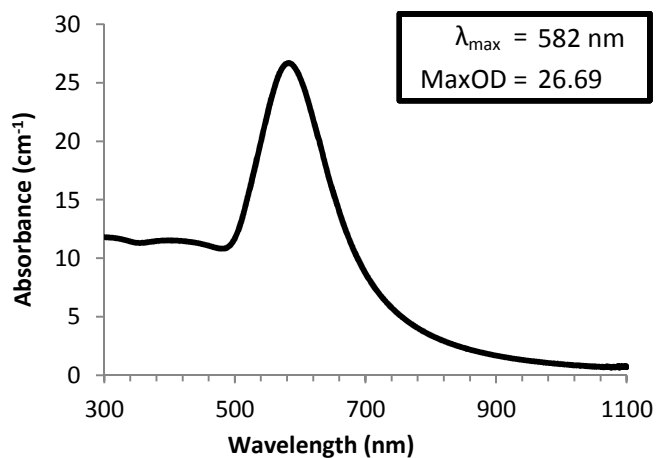
Total Diameter (TEM):	139 ± 13 nm	Mass Concentration (Au):	1.02 mg/mL		
Coefficient of Variation:	9.5 %	Hydrodynamic Diameter:	159 nm		
Core Diameter (TEM):	100 ± 13 nm	Zeta Potential:	36 mV		
Shell Thickness (TEM):	20 nm	Zeta pH:	5.1	Zeta Solvent:	2 mM Acetate
Surface Area (Calc'd):	5.0 m ² /g	Particle Surface:	Aminated/Cationic		
Particle Concentration (Calc'd)	1.0E+11 particles/mL	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: 2-8 °C. DO NOT FREEZE.