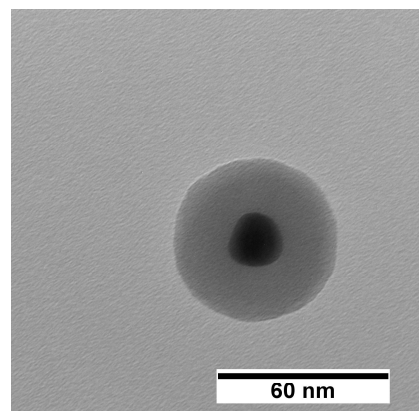
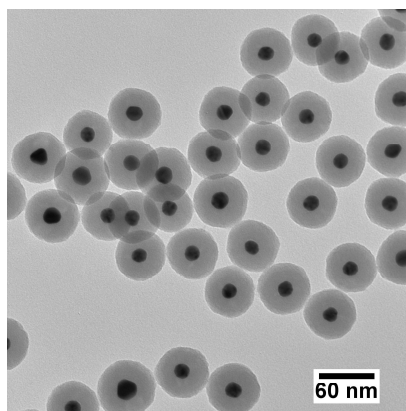
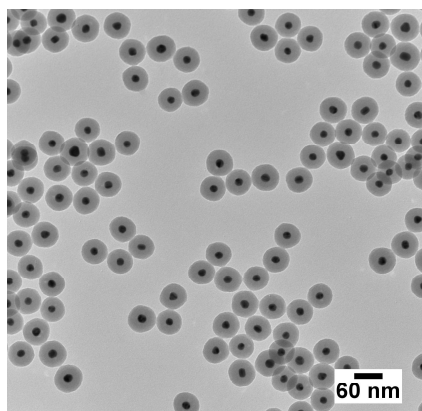


Silica Shelled 20 nm Gold Nanospheres, NanoXact™

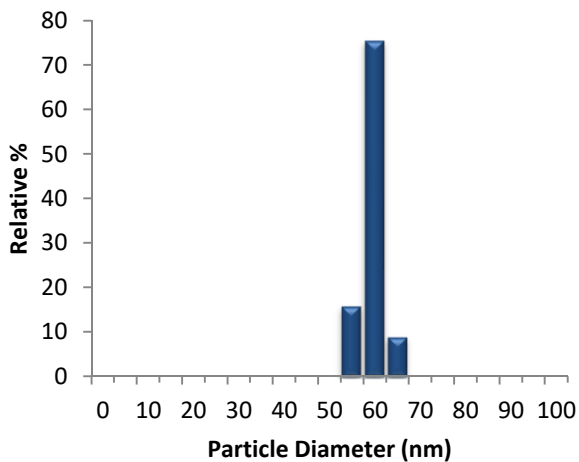
Product Number: AUSH20

Lot Number: WTJ0163

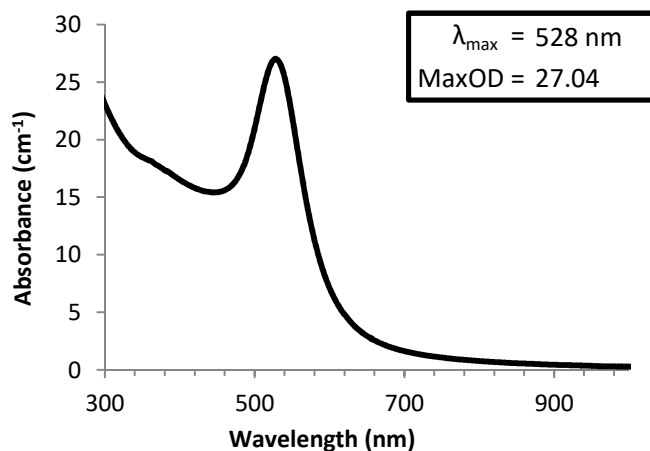
Total Diameter ± Std.Dev (TEM):	57 ± 2 nm	Hydrodynamic Diameter:	107 nm
Coefficient of Variation:	3.7 %	Zeta Potential:	-40 mV
Core Diameter (TEM):	17 ± 1 nm	Zeta pH:	9.57
Shell Thickness (TEM):	20 nm	Zeta Solvent:	Milli-Q H2O
Surface Area (Calc'd):	39.1 m ² /g	Particle Surface:	Silanol
Particle Concentration (Calc'd):	2.0E+13 particles/mL	Solvent:	Ethanol
		Mass Concentration (Au):	1.07 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
pH:	Horiba - Laqua Twin pH Meter

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