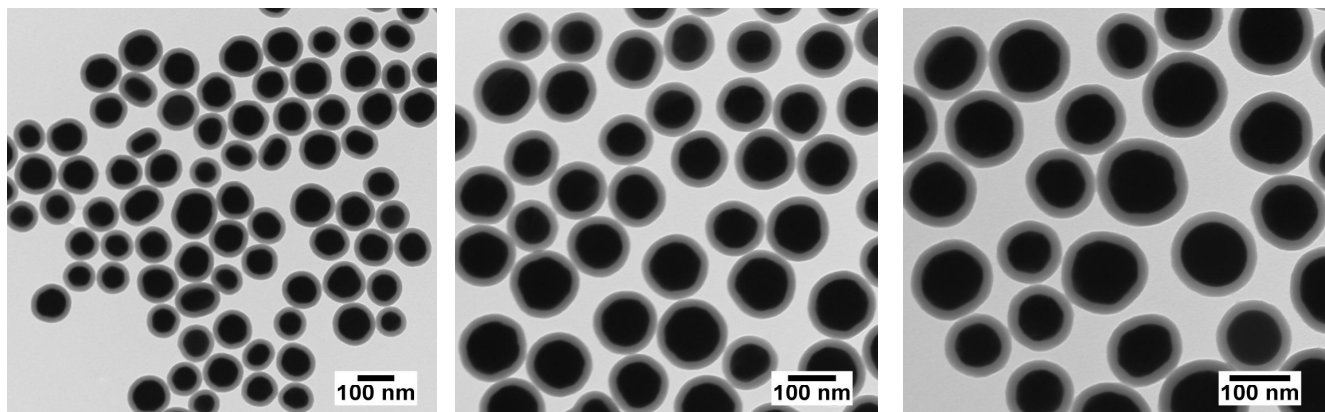


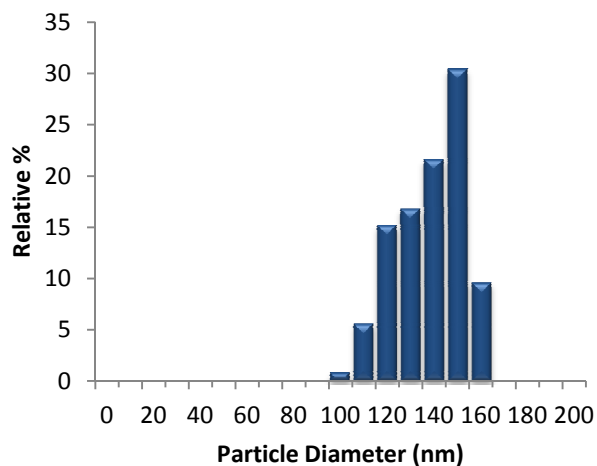
# Silica Shelled 100 nm NanoXact™ Gold

Lot Number: JCP1431

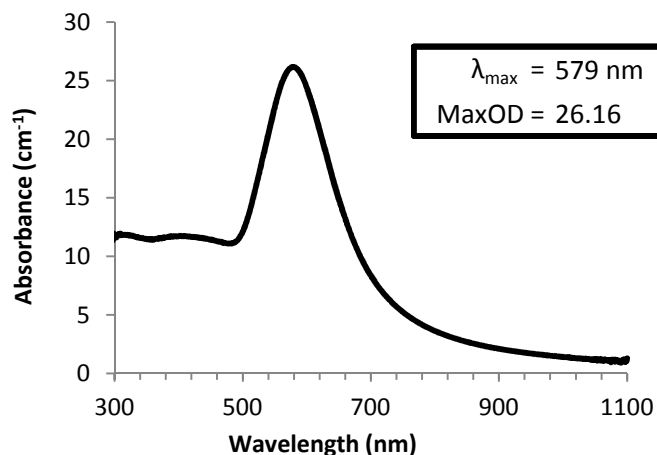
<b>Total Diameter (TEM):</b>	133.4 ± 14.2 nm	<b>Mass Concentration (Au):</b>	1.03 mg/mL
<b>Coefficient of Variation:</b>	10.7 %	<b>Hydrodynamic Diameter:</b>	163.0 nm
<b>Core Diameter (TEM):</b>	97.2 ± 14.5 nm	<b>Zeta Potential:</b>	-44.2 mV
<b>Shell Thickness (TEM):</b>	18.1 nm	<b>Zeta pH:</b>	5.77
<b>Surface Area (Calc'd):</b>	5.0 m <sup>2</sup> /g	<b>Zeta Solvent:</b>	Mill-Q H2O
<b>Particle Concentration:</b>	1.1E+11 particles/mL	<b>Particle Surface:</b>	Silanol
		<b>Solvent:</b>	Ethanol



## Size Distribution



## Optical Properties



### Characterization Instrumentation

**Diameter and Size Statistics:**

**Mass Concentration:**

**Spectral Properties:**

**Hydrodynamic Diameter/Zeta Potential:**

JEOL 1010 Transmission Electron Microscope

Thermo Fisher X Series 2 ICP-MS

Agilent 8453 UV-Visible Spectrometer

Malvern Zetasizer Nano ZS.

Shake vigorously before use. Bath sonicate if needed. Storage: 4-25 °C. DO NOT FREEZE.