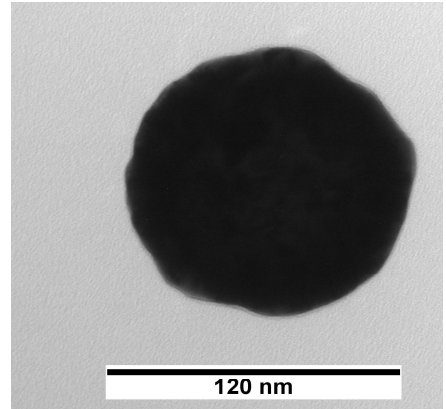
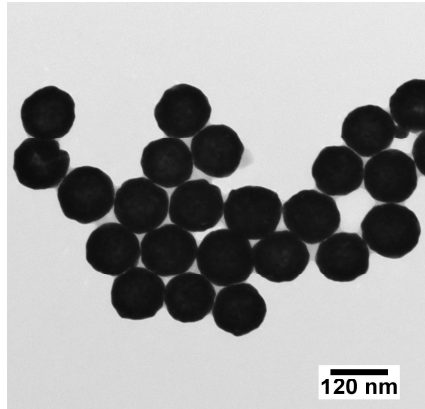
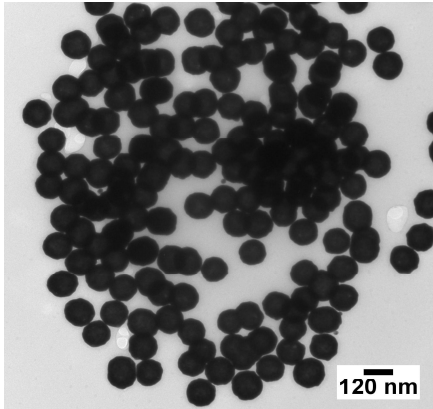


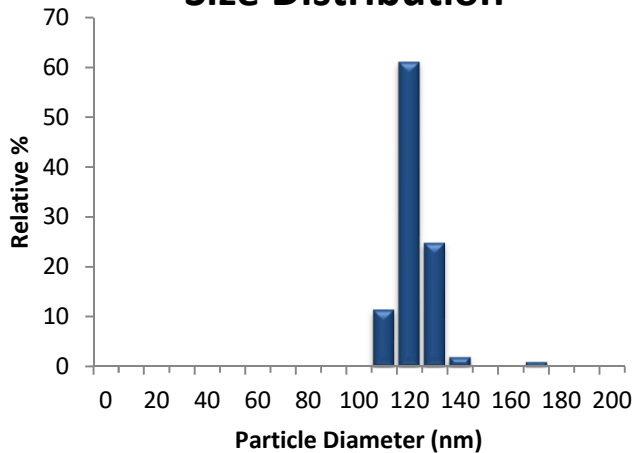
# Gold Nanoshells, Peak Absorbance @ 660 nm, PVP, NanoXact™

**Product Number: GSPN660**
**Lot Number: WTJ0542**

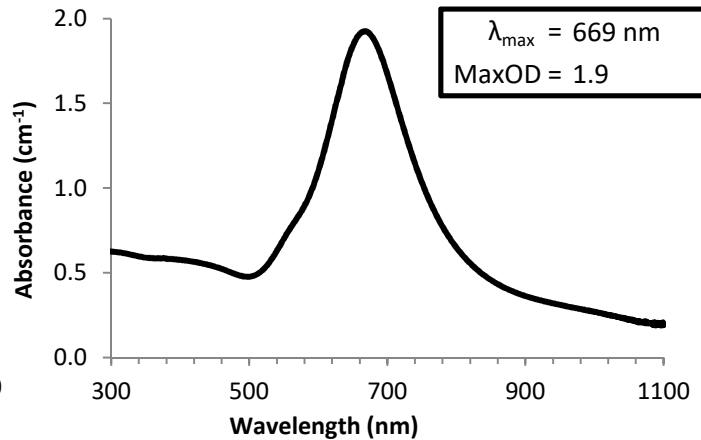
<b>Total Diameter ± Std.Dev (TEM)*</b>	117 ± 8 nm	<b>Mass Concentration (Au):</b>	0.054 mg/mL
<b>Coefficient of Variation*:</b>	6.4 %	<b>Hydrodynamic Diameter:</b>	146 nm
<b>Core Diameter ± Std.Dev (TEM)*:</b>	78 ± 5 nm	<b>Zeta Potential:</b>	-46 mV
<b>Shell Thickness (Calc'd):</b>	20 nm	<b>pH of Solution:</b>	5.5
<b>Surface Area (Calc'd):</b>	3.5 m <sup>2</sup> /g	<b>Particle Surface:</b>	PVP 40 kDa (Polymer)
<b>Particle Concentration (Calc'd):</b>	4.7E+09 particles/mL	<b>Solvent:</b>	USP Purified Water
<b>% Absorbance at 660 nm:</b>	99.1 %		



## Size Distribution



## Optical Properties



## Characterization Instrumentation

<b>Diameter and Size Statistics:</b>	JEOL 1010 Transmission Electron Microscope; ImageJ
<b>Mass Concentration:</b>	Thermo Fisher X Series 2 ICP-MS
<b>Spectral Properties:</b>	Agilent 8453 UV-Visible Spectrometer
<b>Hydrodynamic Diameter/Zeta Potential:</b>	Malvern Zetasizer Nano ZS
<b>pH:</b>	Horiba - Laqua Twin pH Meter

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

\*Particle size data is based on measurements of singlet particles only.