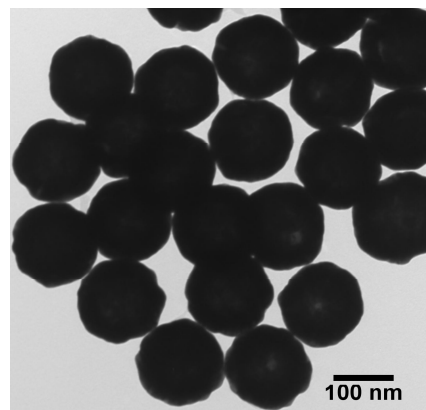
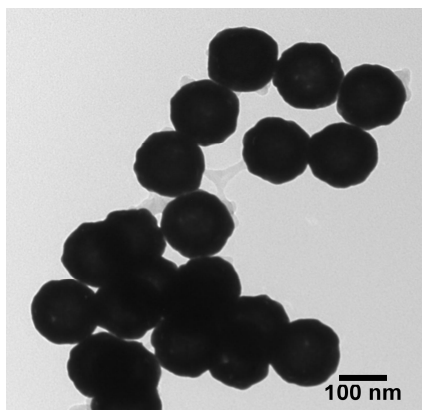
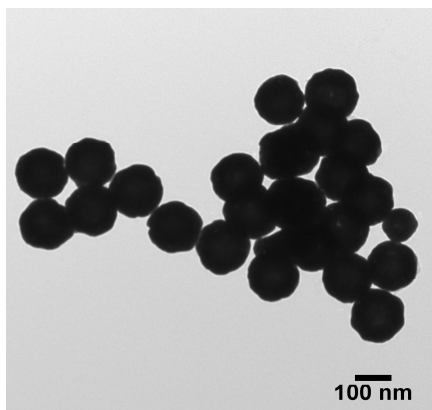


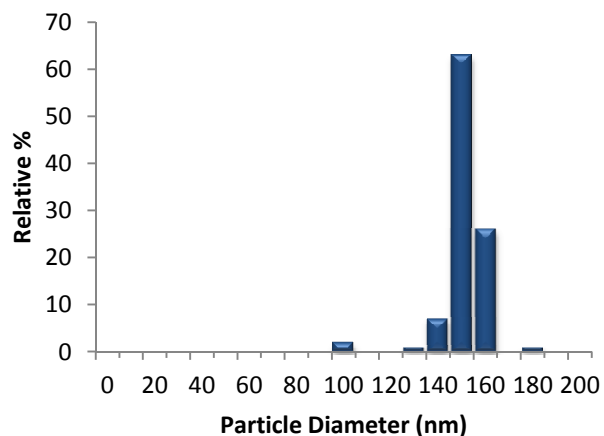
# 660 nm Resonant Gold Nanoshells, Lipoic Acid

Lot Number: JCP1463B

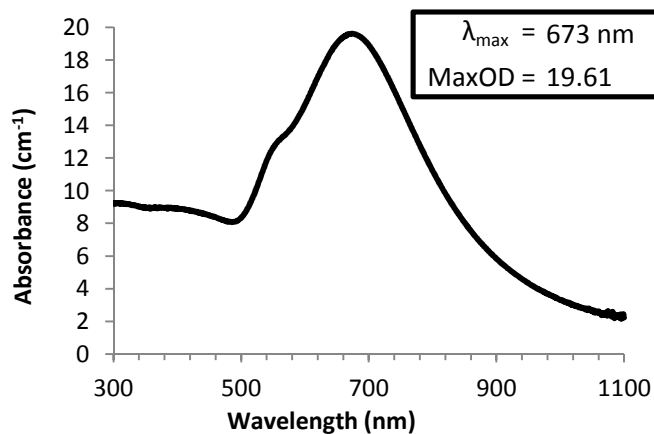
<b>Total Diameter (TEM):</b>	146.6 ± 9.4 nm	<b>Mass Concentration (Au):</b>	0.97 mg/mL
<b>Coefficient of Variation:</b>	6.4 %	<b>Hydrodynamic Diameter:</b>	156.1 nm
<b>Core Diameter (TEM):</b>	87.9 ± 3.4 nm	<b>Zeta Potential:</b>	-42.2 mV
<b>Shell Thickness (Calc'd):</b>	29.4 nm	<b>pH of Solution:</b>	7.0
<b>Surface Area (Calc'd):</b>	2.6 m <sup>2</sup> /g	<b>Particle Surface:</b>	Lipoic Acid
<b>Particle Concentration:</b>	3.9E+10 particles/mL	<b>Solvent:</b>	Milli-Q Water



## Size Distribution



## Optical Properties



### Characterization Instrumentation

<b>Diameter and Size Statistics:</b>	JEOL 1010 Transmission Electron Microscope
<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.

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

Produced under license to United States patent numbers 6,344,272, 6,685,986, and 7,371,457.

These nanoComposix products are to be used for research purposes only and are not to be used for any commercial purposes.