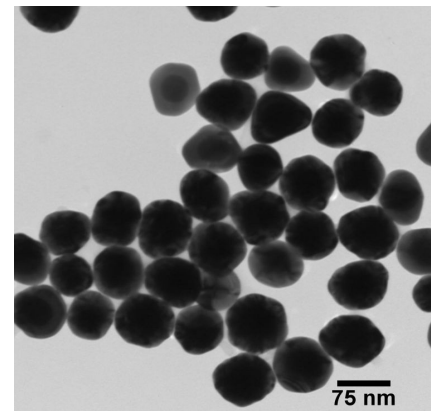
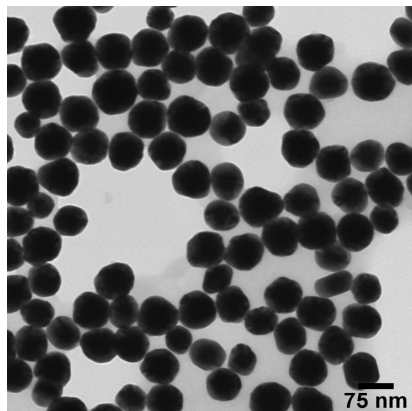
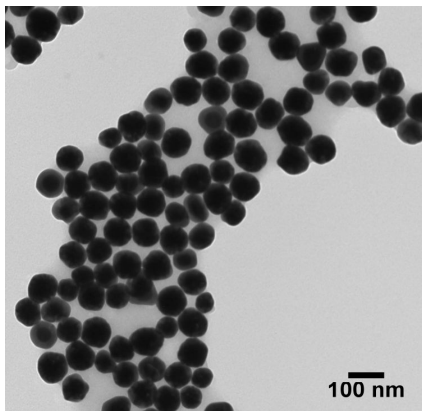


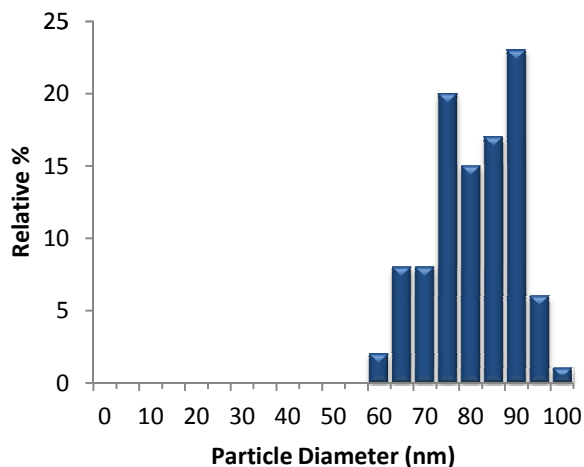
# 80 nm Silver Shelled Gold Nanospheres, Citrate, NanoXact™

Lot Number: KJW2239

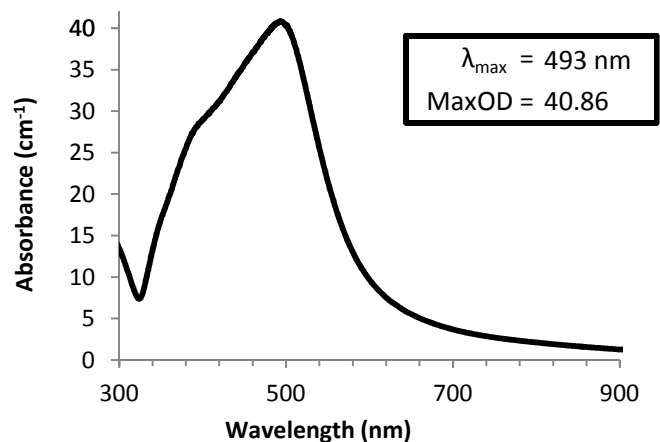
<b>Total Diameter (TEM):</b>	79 ± 9 nm	<b>Mass Concentration (Ag)</b>	0.60 mg/mL
<b>Coefficient of Variation:</b>	11.5 %	<b>Mass Concentration (Au):</b>	0.43 mg/mL
<b>Core Diameter (TEM):</b>	51 ± 6 nm	<b>Hydrodynamic Diameter:</b>	85 nm
<b>Shell Thickness (Calc'd):</b>	14 nm	<b>Zeta Potential:</b>	-45 mV
<b>Surface Area (Calc'd):</b>	5.8 m <sup>2</sup> /g	<b>pH of Solution:</b>	7.2
<b>Particle Concentration:</b>	3.1E+11 particles/mL	<b>Particle Surface:</b>	Sodium Citrate
<b>Total Mass Conc. (Au/Ag):</b>	1.03 mg/mL	<b>Solvent:</b>	Aqueous 2mM Citrate



## 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.

Storage: 2-8 °C away from light. DO NOT FREEZE.