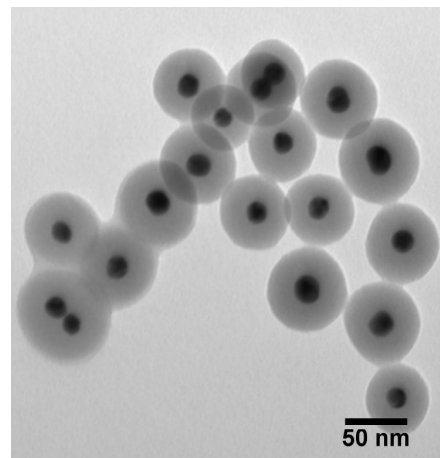
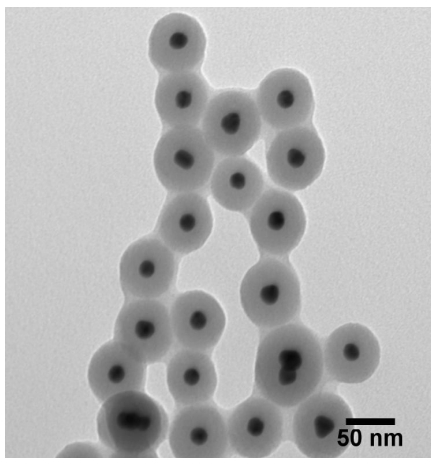
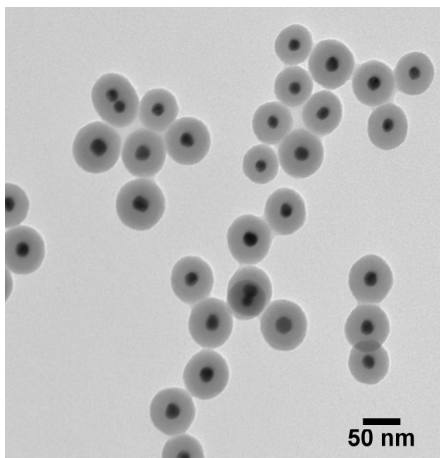


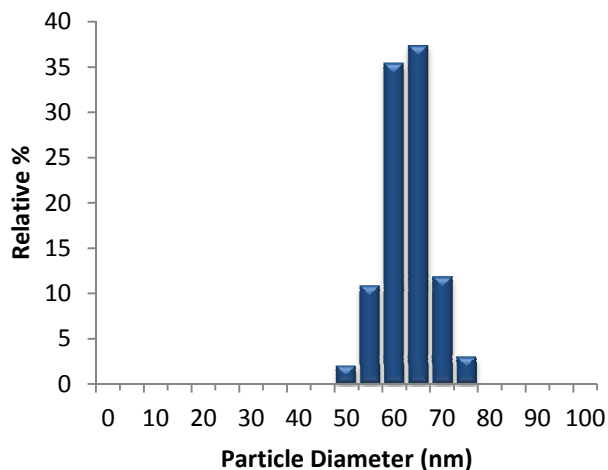
# Aminated Silica Shelled 20 nm NanoXact™ Gold

Lot Number: JCP1267

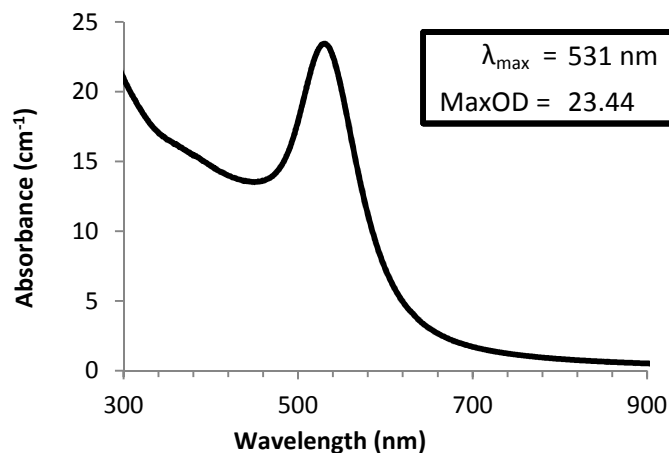
<b>Total Diameter (TEM):</b>	60.1 ± 4.7 nm	<b>Mass Concentration (Au):</b>	1.0 mg/mL
<b>Coefficient of Variation:</b>	7.8 %	<b>Hydrodynamic Diameter:</b>	132.1 nm
<b>Core Diameter (TEM):</b>	19.0 ± 2.4 nm	<b>Zeta Potential (pH 5.2):</b>	21.7 mV
<b>Shell Thickness (TEM):</b>	20.6 ± 1.5 nm	<b>pH of Solution:</b>	9.5
<b>Surface Area (TEM):</b>	5.11 m <sup>2</sup> /g	<b>Particle Surface:</b>	Amine Terminated
<b>Particle Concentration:</b>	1.5E+13 particles/mL	<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: 4-8 °C. DO NOT FREEZE.