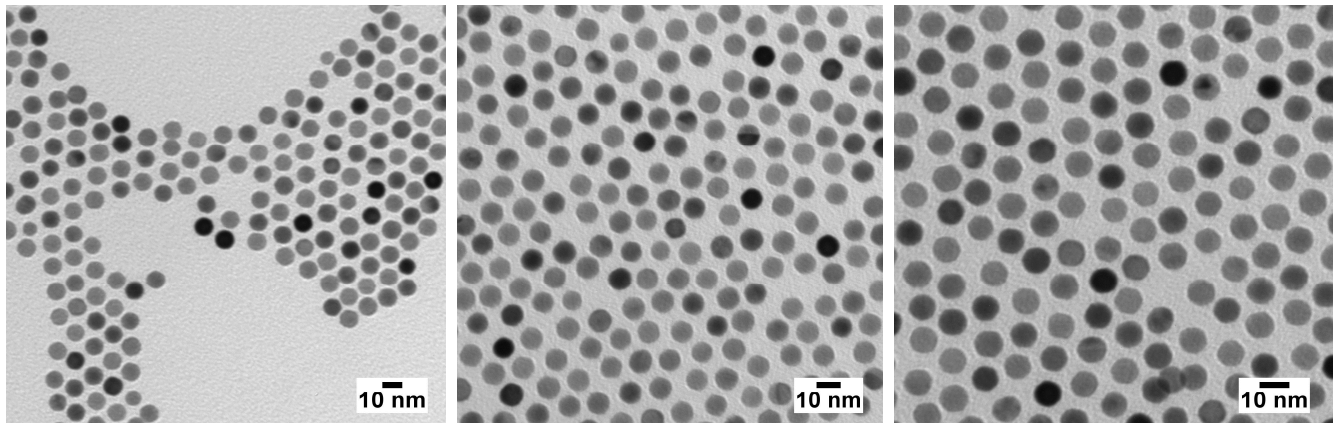


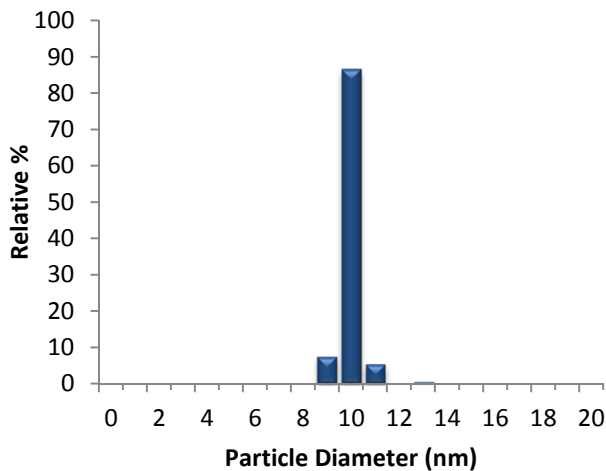
# 10 nm Gold Nanospheres, PEG Carboxyl, Ultra Uniform™

Lot Number: DMW0900

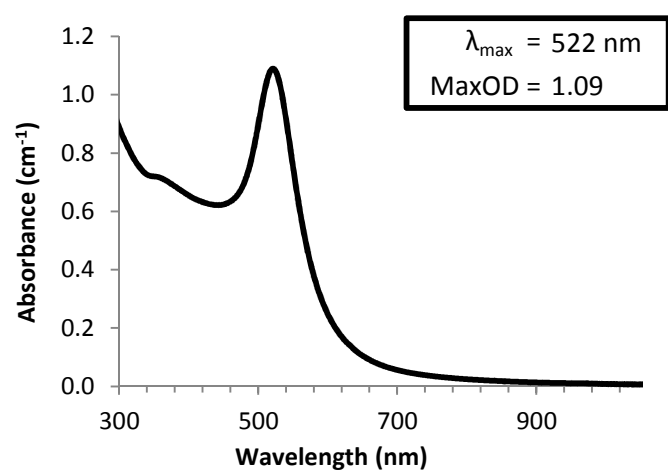
<b>Diameter (TEM):</b>	9.5 ± 0.4 nm	<b>Hydrodynamic Diameter:</b>	19 nm
<b>Coefficient of Variation:</b>	4.2 %	<b>Zeta Potential:</b>	-20 mV
<b>Surface Area (Calc'd):</b>	32.5 m <sup>2</sup> /g	<b>pH of Solution:</b>	7.7
<b>Mass Concentration (Au):</b>	0.052 mg/mL	<b>Gold Purity:</b>	99.99 %
<b>Particle Concentration (Calc'd):</b>	5.9E+12 particles/mL	<b>Particle Surface:</b>	PEG12-Carboxylic Acid
<b>Molar Particle Concentration:</b>	9.9E-09 particle # (mol/L)	<b>Solvent:</b>	Aqueous 2mM Citrate
<b>Endotoxin Concentration:</b>	< 2.5 EU/mL		



**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
<b>Endotoxin:</b>	Pyros Kinetix - Turbidimetric Assay-(BioPure and Ultra Uniform Only)
<b>pH:</b>	Horiba - Laqua Twin pH Meter

Storage: 2-8 °C. DO NOT FREEZE.