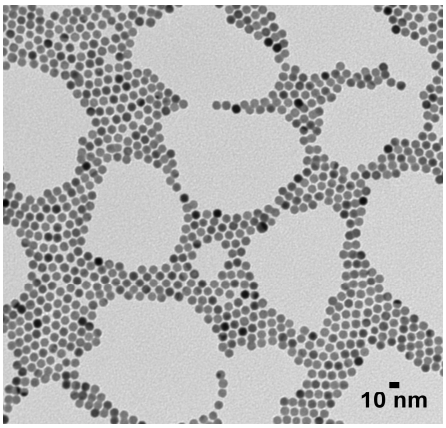
nanoComposix

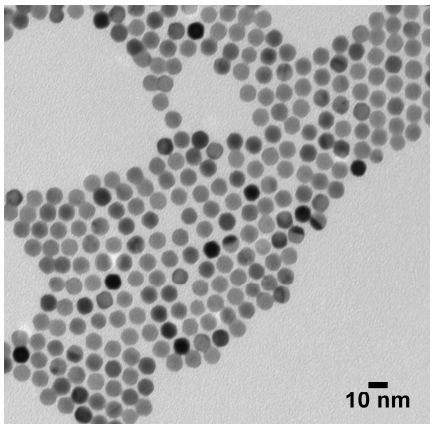
Certificate of Analysis

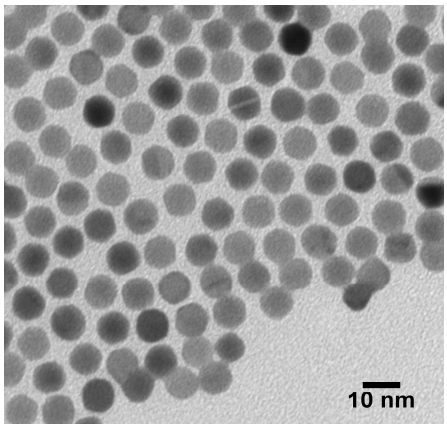
10 nm Gold Nanospheres, PEG Carboxyl, Ultra Uniform™

Product Number: AUXU10 **Lot Number: SDC0058**

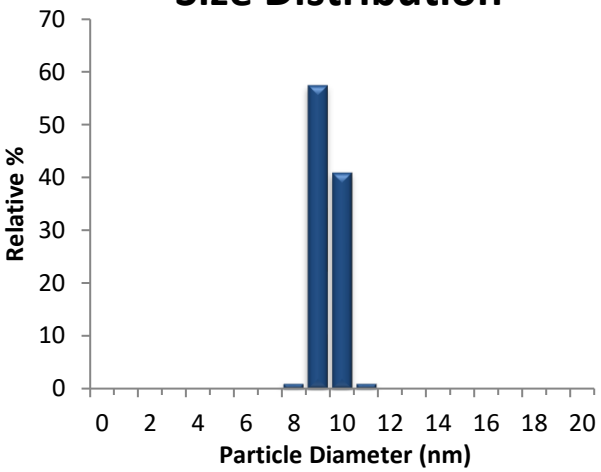
Diameter ± Std.Dev (TEM):	10.0 ± 0.4 nm	**Hydrodynamic Diameter:**	17 nm
Coefficient of Variation:	3.7 %	**Zeta Potential*:**	-25 mV
Surface Area (Calc'd):	31.1 m^2/g	**pH of Solution:**	7.3
Mass Concentration (Au):	0.054 mg/mL	**Gold Purity:**	99.99 %
Particle Concentration (Calc'd):	5.4E+12 particles/mL	**Particle Surface:**	PEG_{12} Carboxylic Acid
Molar Particle Concentration:	8.9E-09 particle # (mol/L)	**Solvent:**	Aqueous 2mM Sodium Citrate



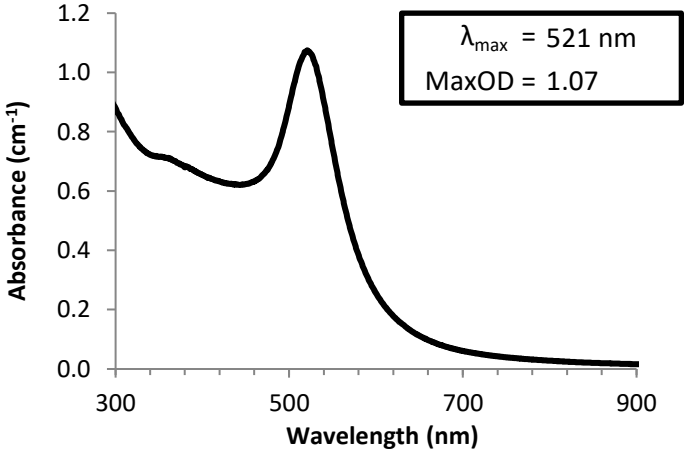




Size Distribution



Optical Properties



Characterization Instrumentation

Diameter and Size Statistics:	JEOL 1010 Transmission Electron Microscope; ImageJ
Mass Concentration:	Thermo Fisher X Series 2 ICP-MS
Spectral Properties:	Agilent 8453 UV-Visible Spectrometer
Hydrodynamic Diameter/Zeta Potential:	Malvern Zetasizer Nano ZS-(>10 nm Products Only)
Endotoxin:	Pyros Kinetix -Turbidimetric Assay-(BioPure Only)
pH:	Horiba - Laqua Twin pH Meter

Recommended storage: 2-8 °C. DO NOT FREEZE.

*For 10 - 20 nm nanoparticles, Zeta potential is reported but concentration is too low to achieve high enough data quality for an accurate measurement; charge magnitude may be greater than reported.

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