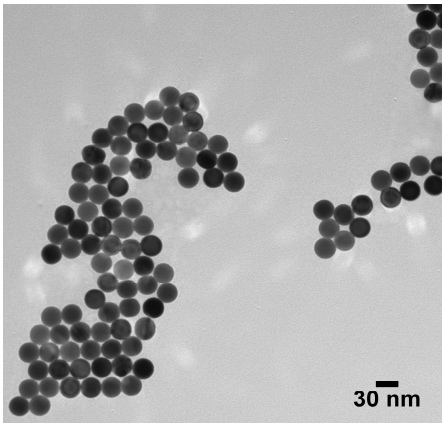
nanoComposix

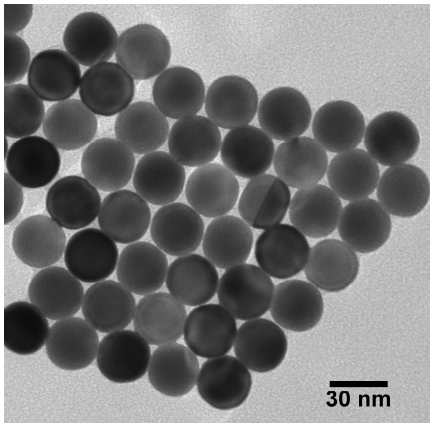
Certificate of Analysis

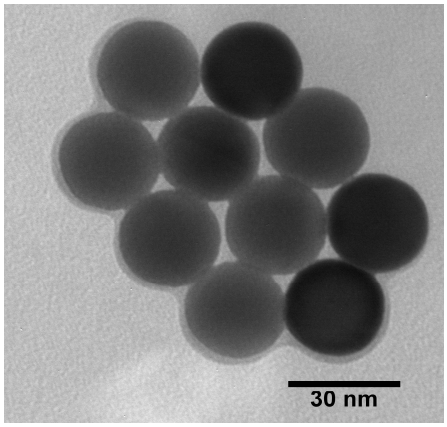
30 nm Gold Nanospheres, PEG Carboxyl, Ultra Uniform™

Product Number: AUXU30 **Lot Number: JSF0123**

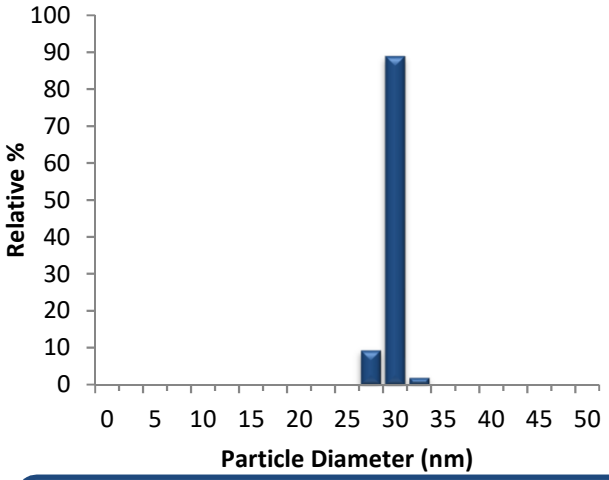
Diameter ± Std.Dev (TEM):	28.2 ± 0.6 nm	**Hydrodynamic Diameter:**	36 nm
Coefficient of Variation:	2.2 %	**Zeta Potential:**	-44 mV
Surface Area (Calc'd):	11.0 m^2/g	**pH of Solution:**	7.7
Mass Concentration (Au):	0.054 mg/mL	**Gold Purity:**	99.99 %
Particle Concentration (Calc'd):	2.4E+11 particles/mL	**Particle Surface:**	PEG_{12} Carboxylic Acid
Molar Particle Concentration:	3.9E-10 particle # (mol/L)	**Solvent:**	Aqueous 2mM Sodium Citrate



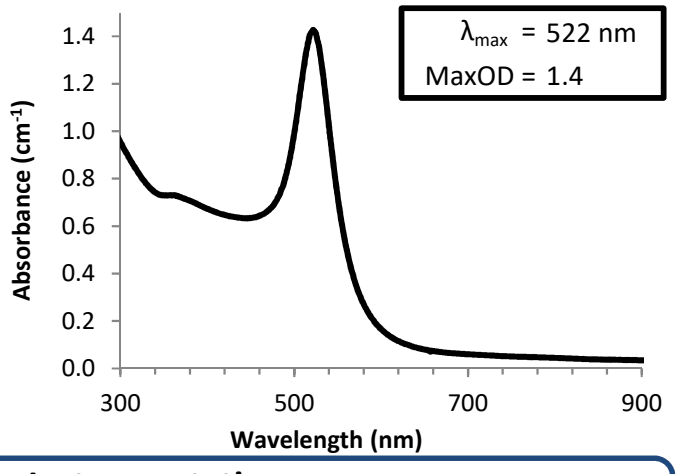




Size Distribution



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.

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