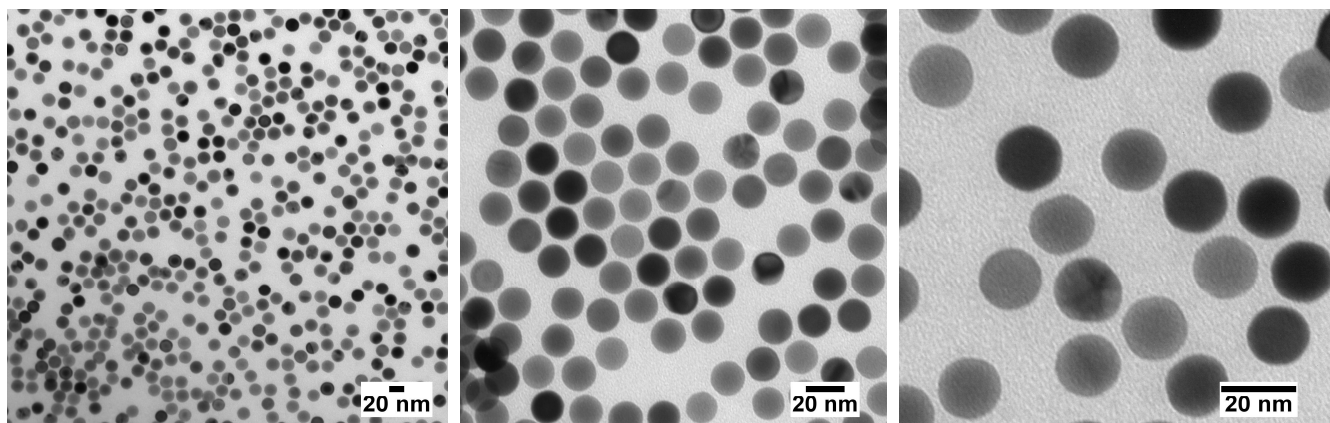
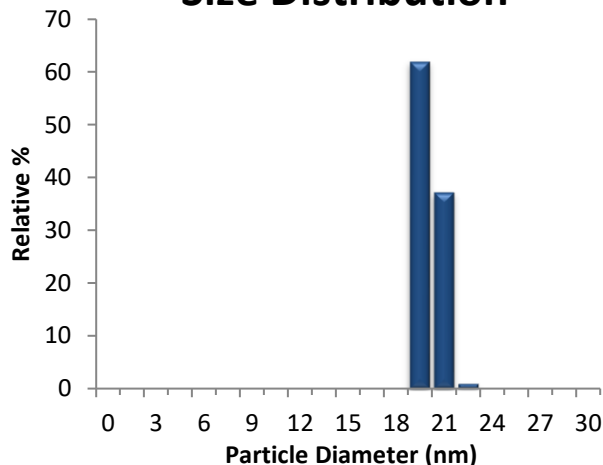
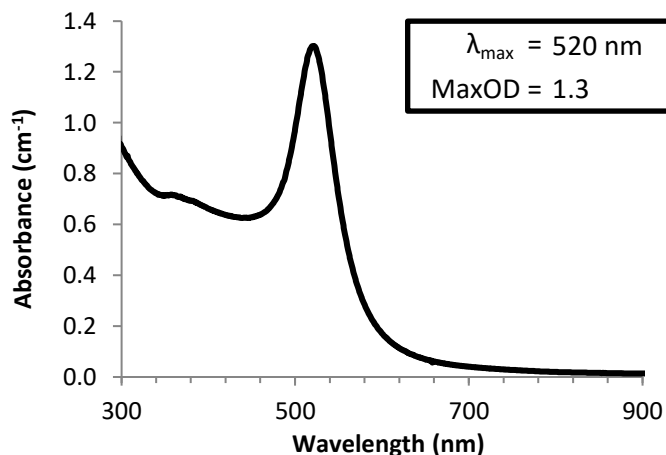


20 nm Gold Nanospheres, PEG Carboxyl, Ultra Uniform™

Product Number: AUXU20
Lot Number: SDC0189

Diameter ± Std.Dev (TEM):	20.8 ± 0.5 nm	Hydrodynamic Diameter:	26 nm
Coefficient of Variation:	2.5 %	Zeta Potential*:	-38 mV
Surface Area (Calc'd):	14.9 m ² /g	pH of Solution:	7.3
Mass Concentration (Au):	0.055 mg/mL	Gold Purity:	99.99 %
Particle Concentration (Calc'd):	6.0E+11 particles/mL	Particle Surface:	PEG ₁₂ Carboxylic Acid
Molar Particle Concentration:	1.0E-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:	Agilent 7800 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.