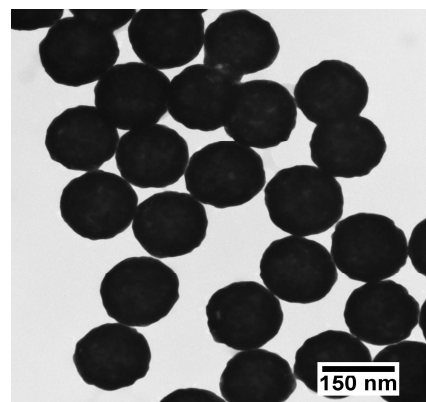
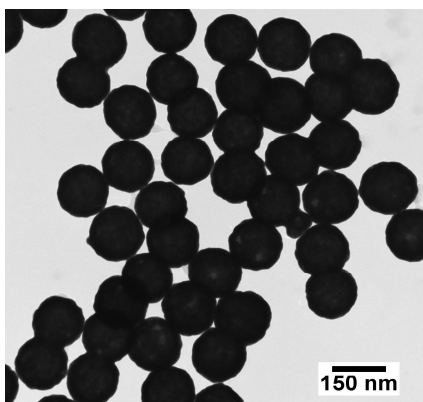
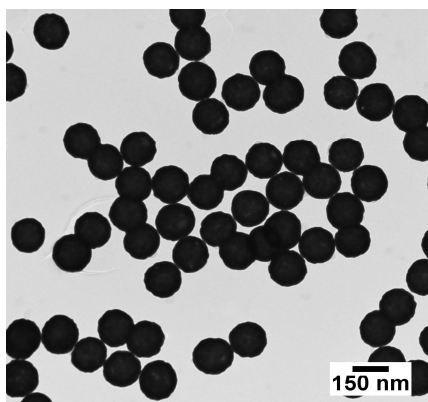


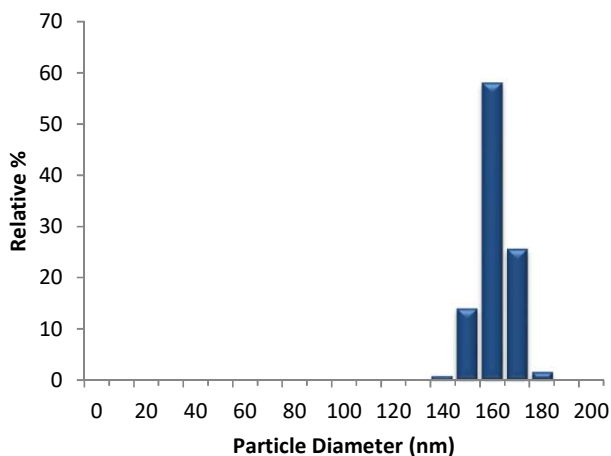
150 nm Gold Nanoshells, Carboxyl, 20 OD, BioReady™

Lot Number: IXW1357

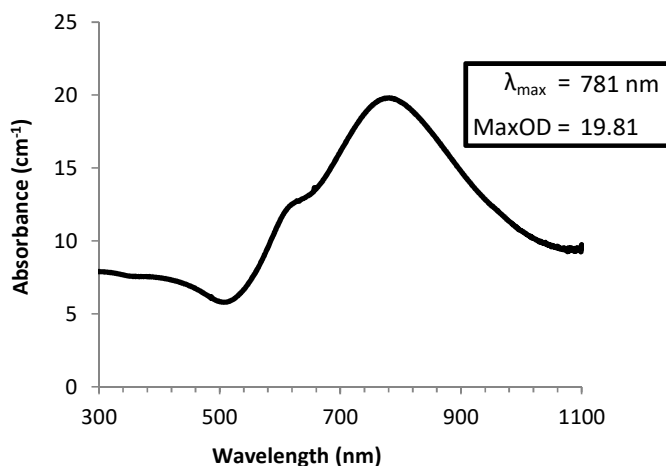
	Specification	Value	Unit		Specification	Value	Unit
Particle Diameter (TEM):	145-165 nm	157 ± 7	nm	Surface Area (Calc'd):	Report	3.3	m ² /g
Coefficient of Variation:	< 15%	4.2	%	Zeta Potential:	< -25 mV	-64	mV
Particle Concentration (Calc'd):	Report	3.5E+10	particles/mL	Max OD:	19.7 - 20.3	19.81	n/a
Molar Particle Concentration:	Report	5.9E-11	particle # (mol/L)	pH:*(Measure before use)	Report	8.1	n/a
Mass Concentration (Au):	Report	0.75	mg/mL	Particle Surface:	Report	Carboxyl (-COOH)	
Hydrodynamic Diameter (DLS):	150-170 nm	164	nm	Solvent:	Report	Aqueous 0.02 mM Potassium Carbonate	



Size Distribution



Optical Properties



Characterization Instrumentation

Diameter and Size Statistics:	JEOL 1010 Transmission Electron Microscope
Mass Concentration:	Thermo Fisher X Series 2 ICP-MS
Spectral Properties:	Agilent 8453 UV-Visible Spectrometer
Hydrodynamic Diameter/Zeta Potential:	Malvern Zetasizer Nano ZS
pH:	Mettler Toledo - SevenCompact S220

Storage: 2-8 °C. DO NOT FREEZE.

Produced under license to United States patent numbers 6,344,272, 6,685,986, and 7,371,457.
These nanoComposix products are to be used for research purposes only and are not to be used for any commercial purposes.