

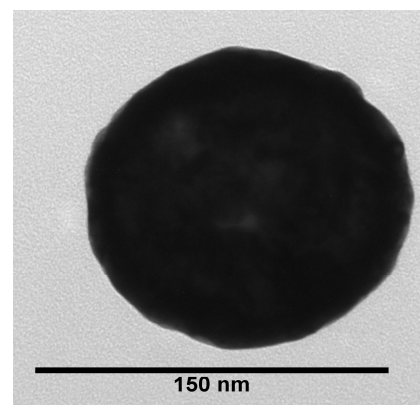
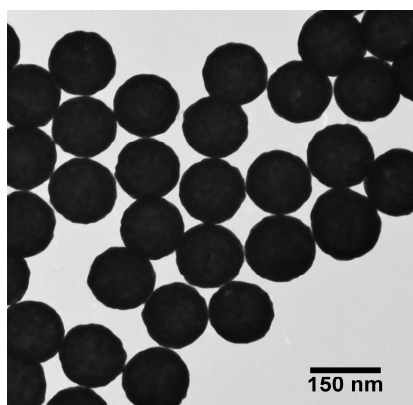
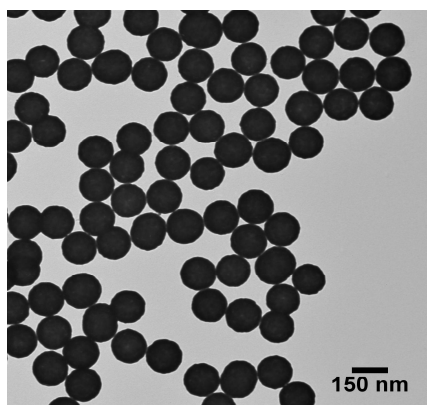
150 nm Gold Nanoshells, Carboxyl, 20 OD, BioReady™

Product Number: GSXR150

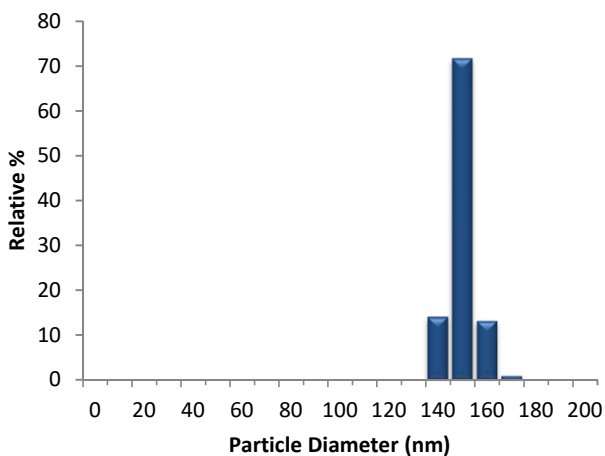
Lot Number: HKE0509

	Specification	Value	Unit
Diameter ± Std.Dev (TEM):	145-165 nm	145 ± 5	nm
Coefficient of Variation:	< 15%	3.6	%
Particle Concentration (Calc'd)	Report	3.4E+10	particles/mL
Molar Particle Concentration:	Report	5.7E-11	particle # (mol/L)
Mass Concentration (Au):	Report	0.50	mg/mL
Hydrodynamic Diameter (DLS):	150-170 nm	166	nm

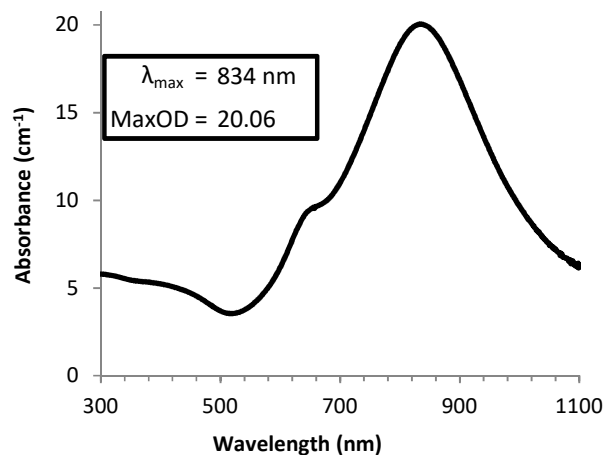
	Specification	Value	Unit
Surface Area (Calc'd):	Report	4.0	m ² /g
Zeta Potential:	< -25 mV	-55	mV
Max OD:	19.7 - 20.3	20.06	n/a
pH:	Report	9.3	n/a
Particle Surface:	Report	Carboxyl (-COOH)	
Solvent:	Report	Aqueous 0.02 mM Potassium Carbonate	



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.