

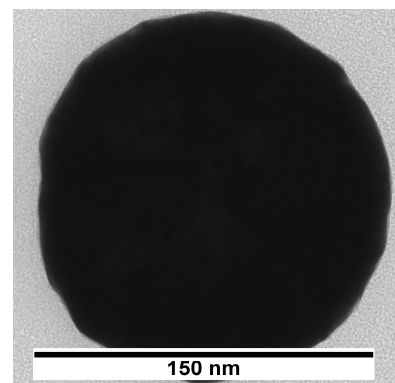
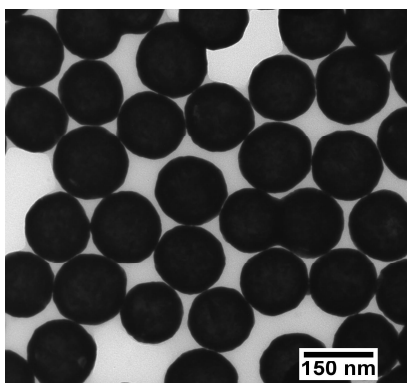
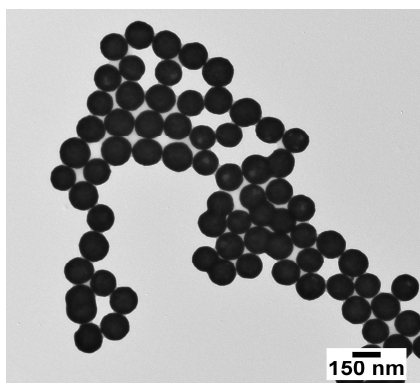
150 nm Gold Nanoshells, Bare (Citrate), 20 OD, BioReady™

Product Number: GSCR150

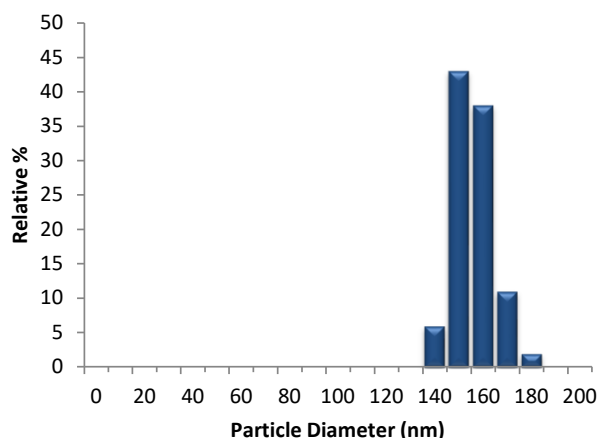
Lot Number: BJB0153

	Specification	Value	Unit
Diameter (TEM*):	145-175	161.0	nm
Coefficient of Variation*:	≤ 15%	5.1	%
Particle Concentration (Calc'd)*:	Report	2.4E+10	particles/mL
Molar Particle Concentration:	Report	4.0E-11	particle # (mol/L)
Mass Concentration (Au):	Report	0.60	mg/mL
Hydrodynamic Diameter (DLS):	145-195	168	nm

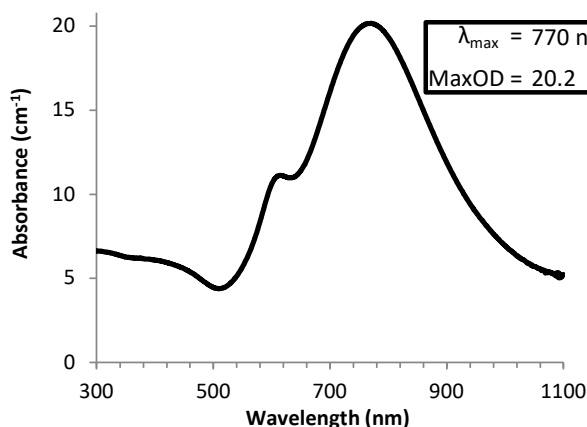
	Specification	Value	Unit
Surface Area (Calc'd):	Report	3.0	m ² /g
Zeta Potential:	< -35 mV	-45	mV
Max OD**:	19.5 - 21.0	20.2	n/a
pH:*(Measure before use)	Report	6.8	n/a
Particle Surface:	Report		Citrate
Solvent:	Report		Aqueous 0.2 mM Sodium Citrate



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
pH:	Mettler Toledo - SevenCompact S220

Storage: 2-8 °C. DO NOT FREEZE.

Particle size data is based on measurements of singlet particles only.

** OD at time of initial QC testing is reported.**

Use by one year from date of receipt.