

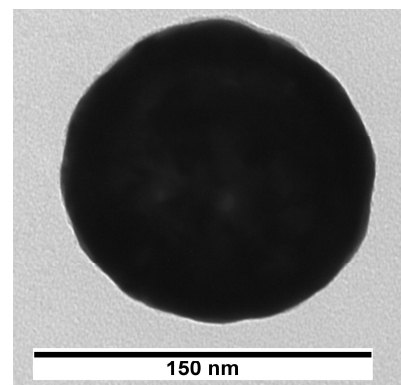
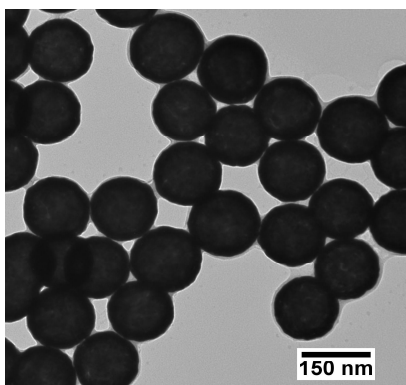
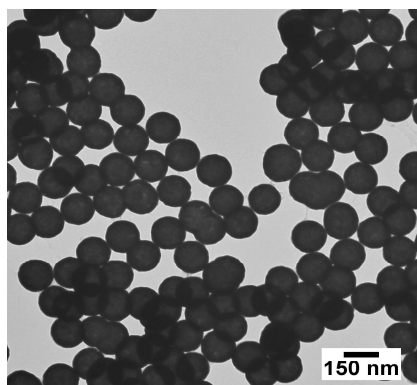
150 nm Gold Nanoshells, Streptavidin, 10 OD, BioReady™

Product Number: GSIR150

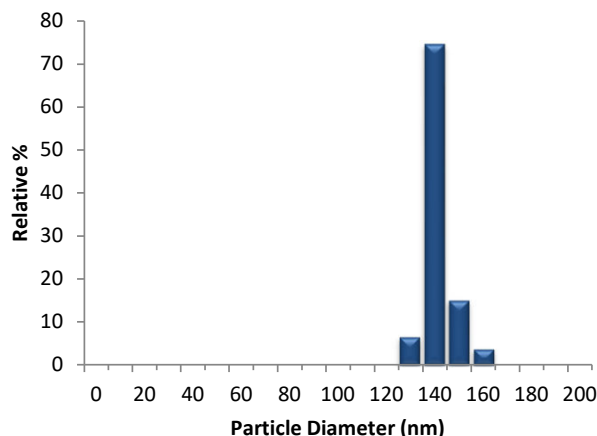
Lot Number: HKE0592

	Specification	Value	Unit
Diameter ± Std.Dev (TEM*):	140-170 nm	147 ± 5	nm
Coefficient of Variation*:	≤ 15%	3.7	%
Particle Concentration (Calc'd)*:	Report	1.8E+10	particles/mL
Molar Particle Concentration:	Report	3.0E-11	particle # (mol/L)
Mass Concentration (Au):	Report	0.28	mg/mL
Hydrodynamic Diameter (DLS):	155-200 nm	183	nm

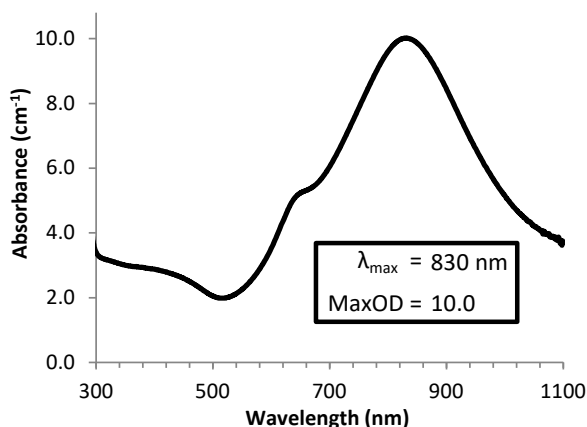
	Specification	Value	Unit
Surface Area (Calc'd):	Report	3.9	m ² /g
Zeta Potential:	Report	< -10	mV
Max OD**:	9.8 - 10.2	10.0	n/a
pH:*(Expected range)	6.5-8.0	7.5	n/a
Particle Surface:	Report	Streptavidin	
Buffer:	Report	0.1x PBS, 0.5% BSA, 0.05% Azide	



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
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.**