

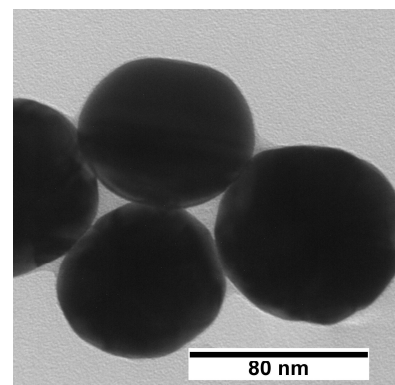
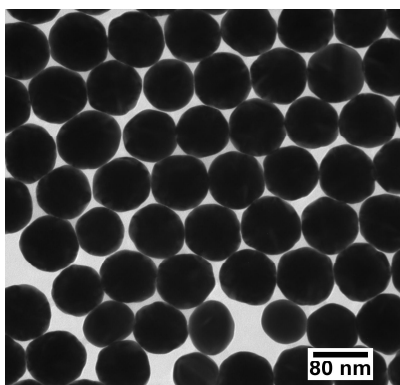
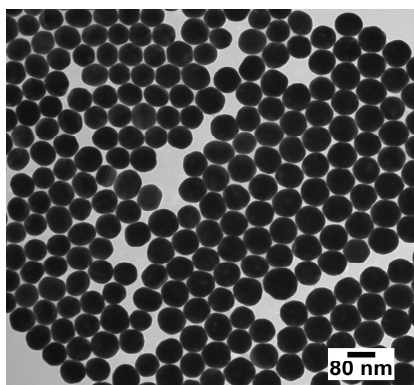
80 nm Gold Nanospheres, Carboxyl, 20 OD, BioReady™

Product Number: AUXR80

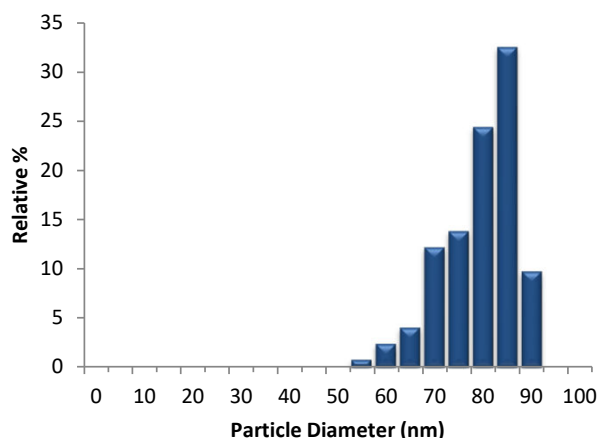
Lot Number: JSF0143

	Specification	Value	Unit
Diameter ± Std.Dev (TEM):	75-85 nm	82 ± 7	nm
Coefficient of Variation:	≤ 15%	8.9	%
Particle Concentration (Calc'd):	Report	1.3E+11	particles/mL
Molar Particle Concentration:	Report	2.2E-10	particle # (mol/L)
Mass Concentration (Au):	Report	0.72	mg/mL
Hydrodynamic Diameter (DLS):	80-95 nm	92	nm

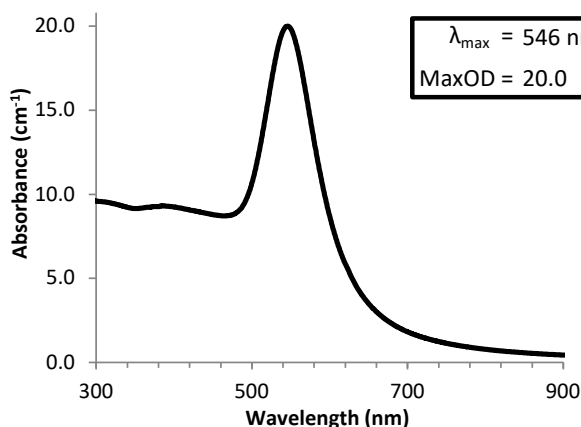
	Specification	Value	Unit
Surface Area (Calc'd):	Report	3.7	m ² /g
Zeta Potential:	< -25 mV	-41	mV
Max OD**:	19.5 - 21.0	20.0	n/a
pH:	Report	6.2	n/a
Particle Surface:	Report	Carboxyl (-COOH)	
Solvent:	Report	USP Purified Water	



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.

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