

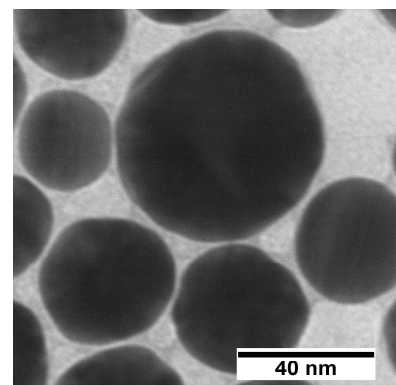
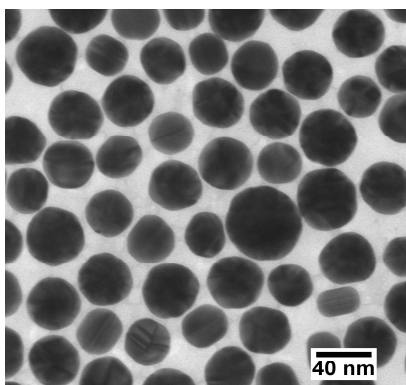
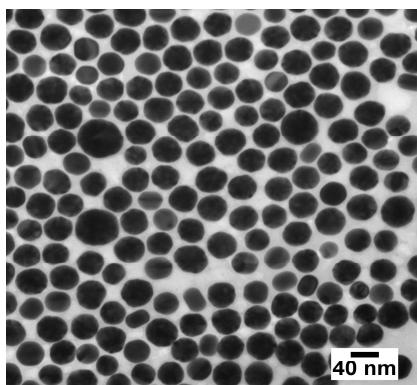
40 nm Gold Nanospheres, Carboxyl, 20 OD, BioReady™

Product Number: AUXR40

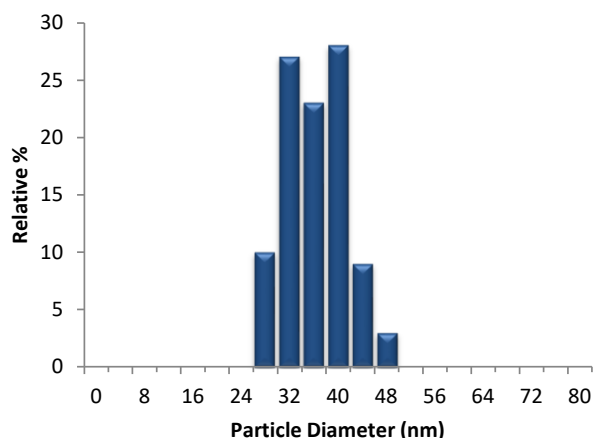
Lot Number: SDC0032

	Specification	Value	Unit
Diameter ± Std.Dev (TEM):	36-44 nm	38 ± 5	nm
Coefficient of Variation:	≤ 15%	12.6	%
Particle Concentration (Calc'd):	Report	1.4E+12	particles/mL
Molar Particle Concentration:	Report	2.4E-09	particle # (mol/L)
Mass Concentration (Au):	Report	0.80	mg/mL
Hydrodynamic Diameter (DLS):	50-70 nm	52	nm

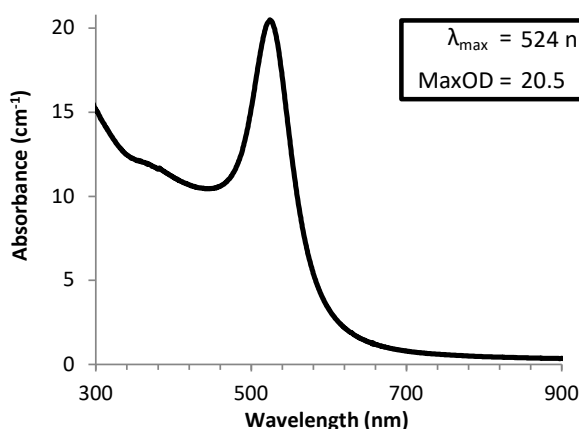
	Specification	Value	Unit
Surface Area (Calc'd):	Report	7.9	m ² /g
Zeta Potential:	< -25 mV	-52	mV
Max OD:	19.5 - 21.0	20.5	n/a
pH:	Report	6.1	n/a
Particle Surface:	Report	Carboxyl (-COOH)	
Solvent:	Report	USP Purified Water	



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.