

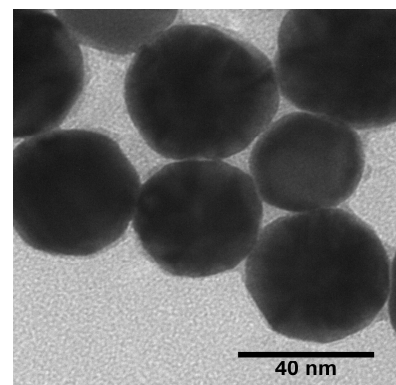
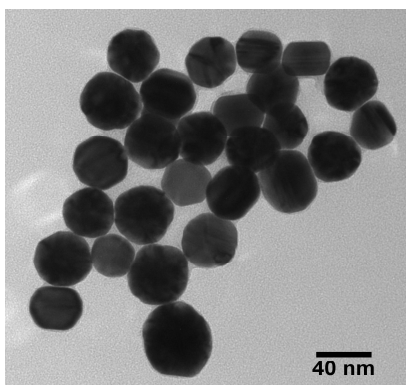
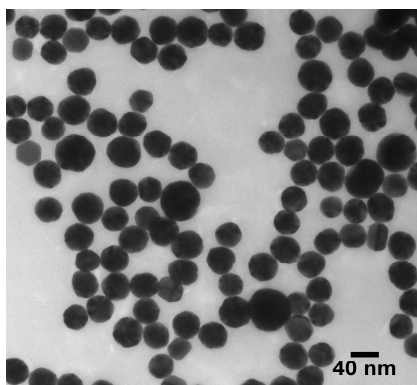
40 nm Gold Nanospheres, Bare (Citrate), 20 OD, BioReady™

Product Number: AUCR40

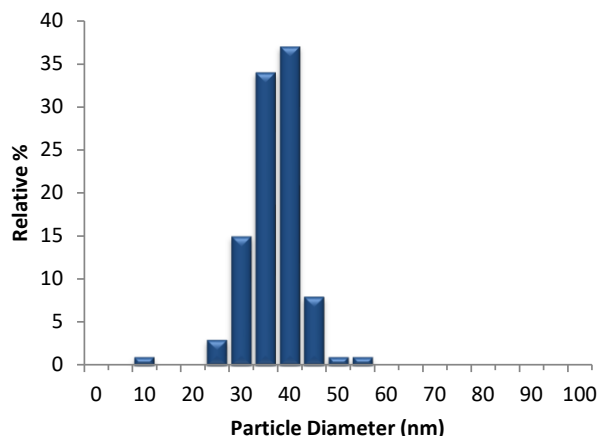
Lot Number: JVB1113

	Specification	Value	Unit
Diameter ± Std.Dev (TEM):	36-44 nm	39 ± 6	nm
Coefficient of Variation:	≤ 15%	14.3	%
Particle Concentration (Calc'd):	Report	1.4E+12	particles/mL
Molar Particle Concentration:	Report	2.3E-09	particle # (mol/L)
Mass Concentration (Au):	Report	0.83	mg/mL
Hydrodynamic Diameter (DLS):	41-50 nm	48	nm

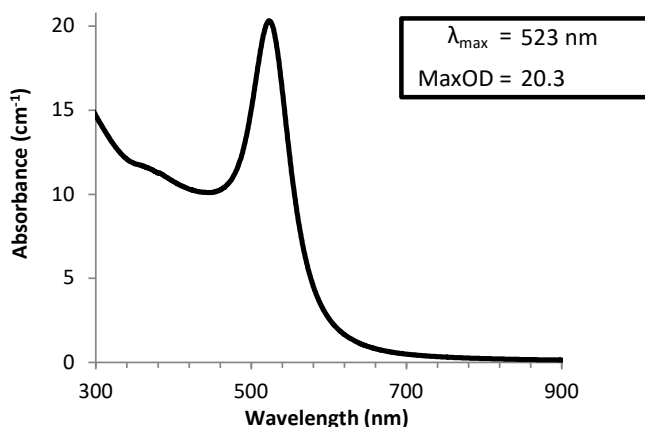
	Specification	Value	Unit
Surface Area (Calc'd):	Report	7.6	m ² /g
Zeta Potential:	< -25 mV	-57	mV
Max OD:	19.5 - 21.0	20.3	n/a
pH:*(Measure before use)	Report	6.4	n/a
Particle Surface:	Report		Citrate
Solvent:	Report		Aqueous 0.02 mM Sodium Citrate



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.