

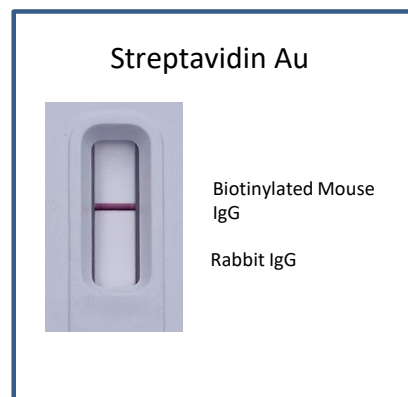
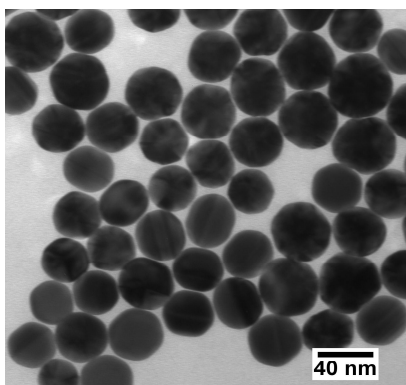
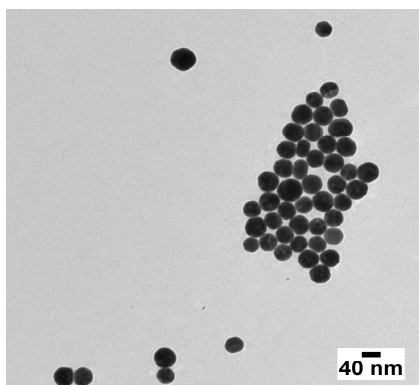
40 nm Gold Nanospheres, Streptavidin, 10 OD, BioReady™

Product Number: AU1R40

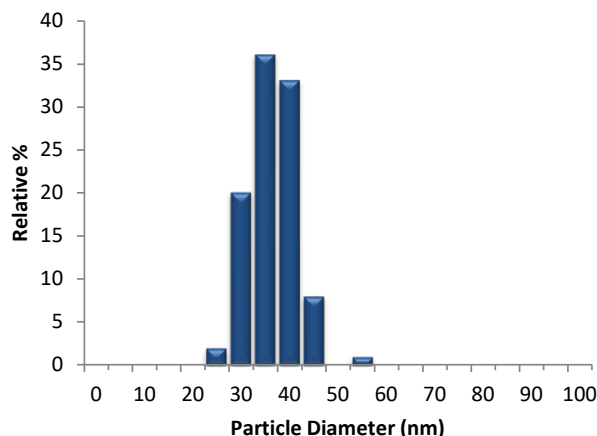
Lot Number: BJB0059

	Specification	Value	Unit
Diameter ± Std.Dev (TEM):	36-44 nm	39 ± 5	nm
Coefficient of Variation:	≤ 15%	12.7	%
Particle Concentration (Calc'd):	Report	6.5E+11	particles/mL
Molar Particle Concentration:	Report	1.1E-09	particle # (mol/L)
Mass Concentration (Au):	Report	0.39	mg/mL
Hydrodynamic Diameter (DLS):	50-70 nm	57	nm

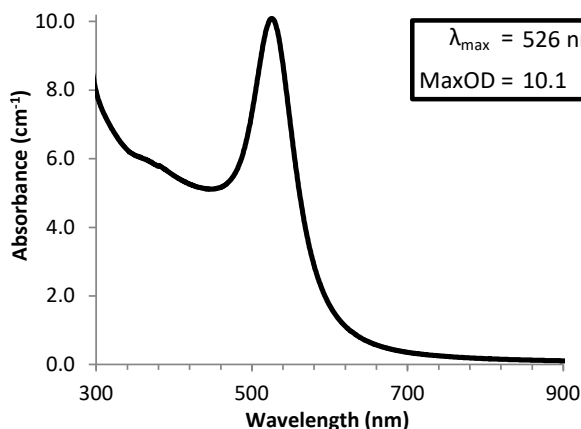
	Specification	Value	Unit
Surface Area (Calc'd):	Report	7.7	m ² /g
Zeta Potential:	Report	< -10	mV
Max OD**:	9.8 - 10.2	10.1	n/a
pH:	Report	7.4	n/a
Particle Surface:	Report	Streptavidin	
Buffer:	Report	1x PBS, 0.5% BSA, 0.05% Azide	



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.

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