

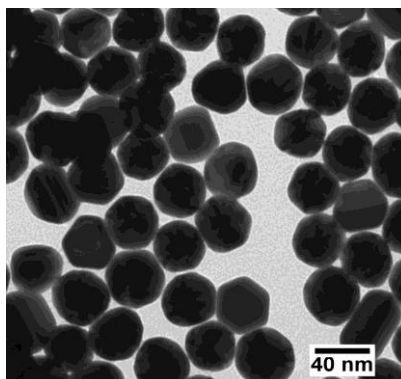
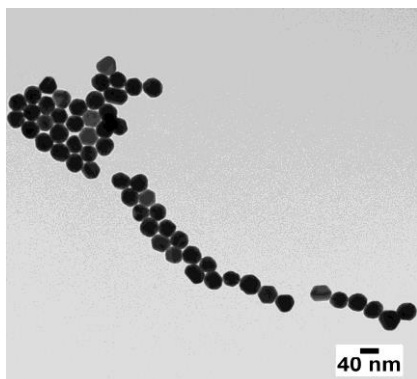
40 nm Gold Nanospheres, Goat Anti-Human IgG (H+L), 10 OD, BioReady™

Product Number: AUAHR40

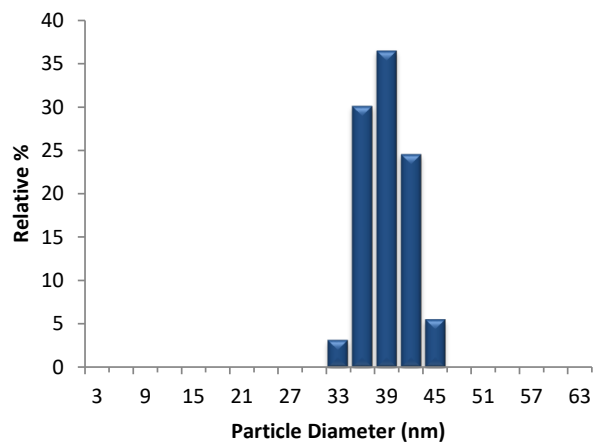
Lot Number: JAW0059

	Specification	Value	Unit
Diameter (TEM):	36-44 nm	40	nm
Coefficient of Variation:	≤ 15%	7.0	%
Particle Concentration (Calc'd):	Report	5.8E+11	particles/mL
Molar Particle Concentration:	Report	9.7E-10	particle # (mol/L)
Mass Concentration (Au):	Report	0.39	mg/mL
Hydrodynamic Diameter (DLS):	Report	69	nm

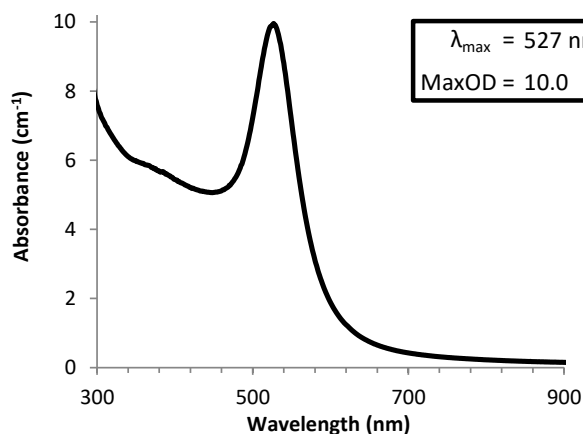
	Specification	Value	Unit
Surface Area (Calc'd):	Report	7.6	m ² /g
Zeta Potential:	Report	< 0	mV
Max OD**:	9.8 - 10.2	10.0	n/a
pH:	Report	7.3	n/a
Particle Surface:	Report	Goat Anti-Human IgG	
Buffer:	Report	1x PBS, 0.5% BSA, 0.05% Azide	



Size Distribution



Optical Properties



Characterization Instrumentation

Diameter and Size Statistics:	JEOL 1010 Transmission Electron Microscope; ImageJ
Mass Concentration:	Agilent 7800 ICP-MS
Spectral Properties:	Agilent 8453 UV-Visible Spectrometer
Hydrodynamic Diameter/Zeta Potential:	Malvern Zetasizer Nano ZS
pH:	Mettler Toledo - SevenCompact S220

Shipping and storage: 2-8 °C. DO NOT FREEZE.

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

Use by 3 Months from date of receipt.