

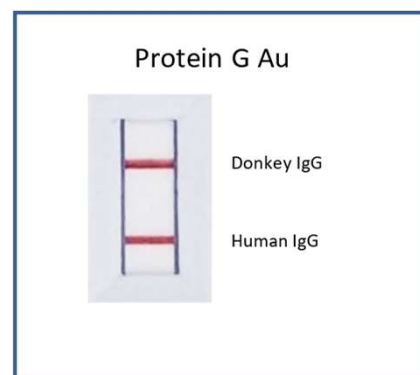
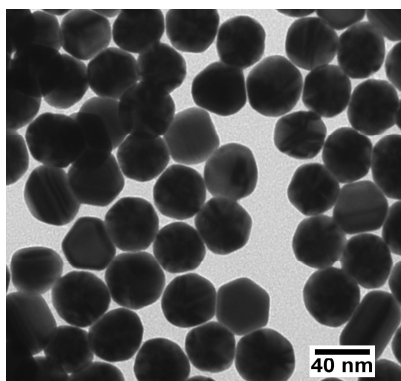
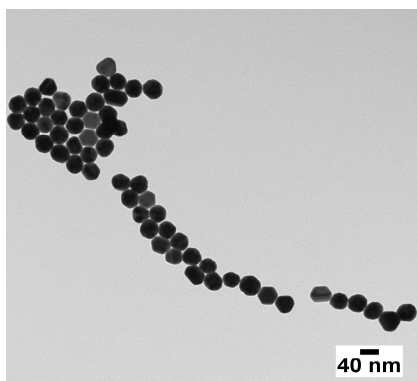
## 40 nm Gold Nanospheres, Protein G, 10 OD, BioReady™

Product Number: AUPGR40

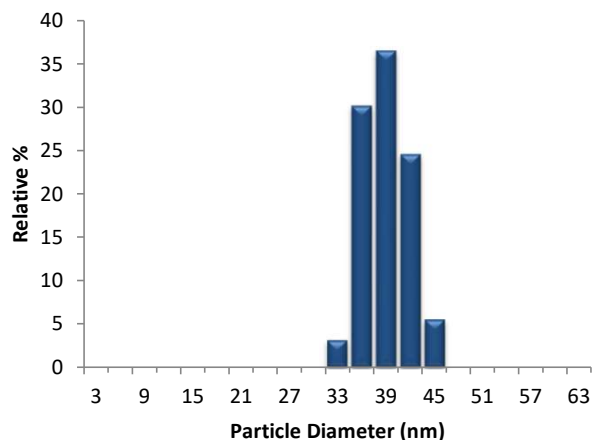
Lot Number: JAW0053

	Specification	Value	Unit
<b>Diameter (TEM):</b>	36-44 nm	40	nm
<b>Coefficient of Variation:</b>	≤ 15%	7.0	%
<b>Particle Concentration (Calc'd):</b>	Report	6.8E+11	particles/mL
<b>Molar Particle Concentration:</b>	Report	1.1E-09	particle # (mol/L)
<b>Mass Concentration (Au):</b>	Report	0.45	mg/mL
<b>Hydrodynamic Diameter (DLS):</b>	Report	66	nm

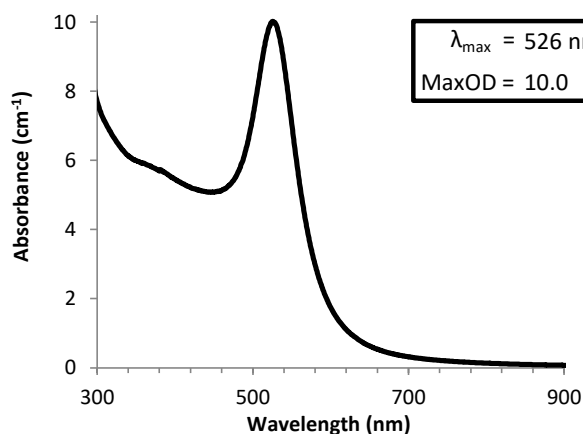
	Specification	Value	Unit
<b>Surface Area (Calc'd):</b>	Report	7.6	m <sup>2</sup> /g
<b>Zeta Potential:</b>	Report	< -10	mV
<b>Max OD**:</b>	9.8 - 10.2	10.0	n/a
<b>pH:</b>	Report	7.5	n/a
<b>Particle Surface:</b>	Report	Protein G	
<b>Buffer:</b>	Report	1x PBS, 0.5% BSA, 0.05% Azide	



### Size Distribution



### Optical Properties



### Characterization Instrumentation

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