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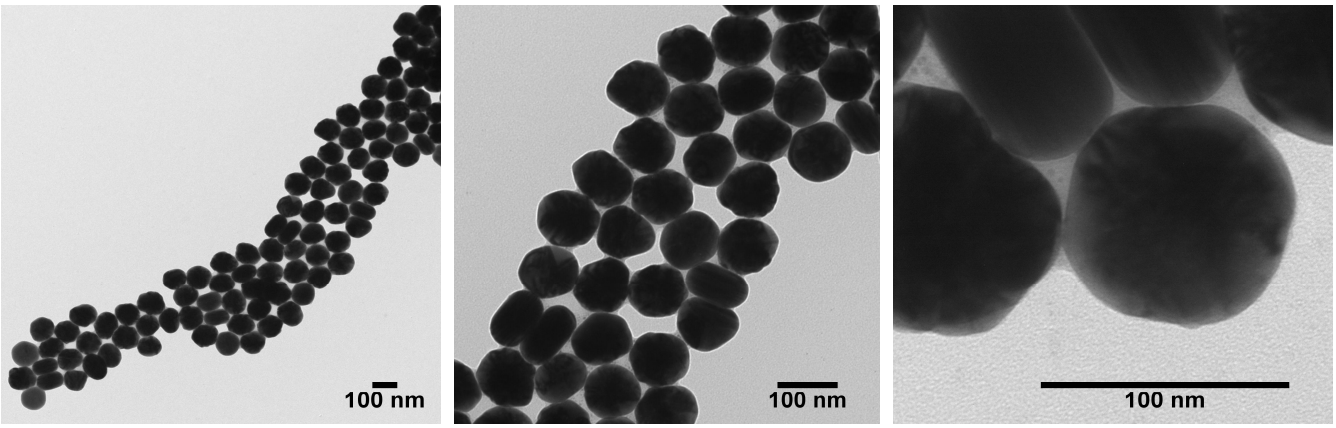
Certificate of Analysis

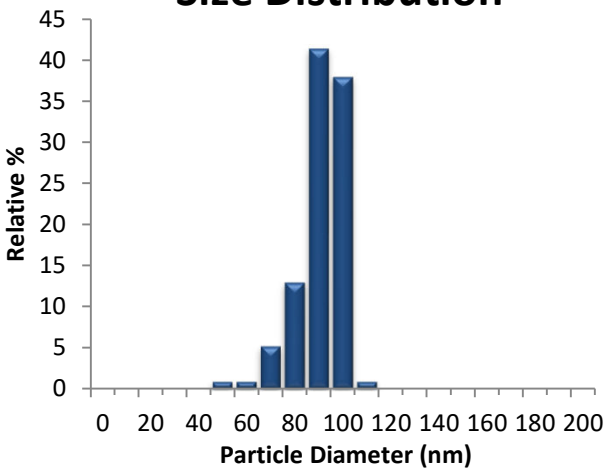
100 nm Silver Nanospheres, Lipoic Acid, BioPure™

Product Number: AGLB100 **Lot Number: JTW0064**

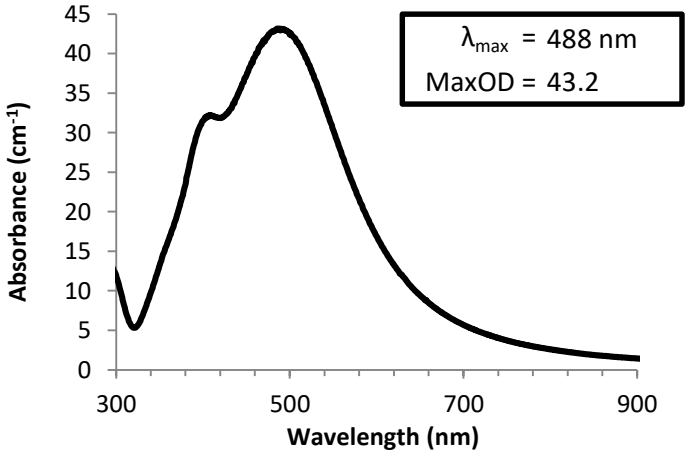
Diameter (TEM):	96 ± 9 nm	**Hydrodynamic Diameter:**	98 nm
Coefficient of Variation:	9.6 %	**Zeta Potential:**	-54 mV
Surface Area (Calc'd):	5.8 m^2/g	**pH of Solution:**	7.8
Mass Concentration (Ag):	1.04 mg/mL	**Silver Purity:**	99.99 %
Particle Concentration (Calc'd):	2.1E+11 particles/mL	**Particle Surface:**	Carboxyl (Lipoic Acid)
Molar Particle Concentration:	3.5E-10 particle # (mol/L)	**Solvent:**	Aqueous 0.2 mM K_2CO_3
Endotoxin Concentration:	< 2.5 EU/mL		



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-(>10 nm Products Only)
Endotoxin:	Pyros Kinetix -Turbidimetric Assay-(BioPure Only)
pH:	Horiba - Laqua Twin pH Meter

Shipping and storage: 2-8 °C away from light. Bath sonicate if needed. DO NOT FREEZE.

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