# 40 nm Silver Nanospheres, Lipoic Acid, BioPure™

**Lot Number: ABK0048**

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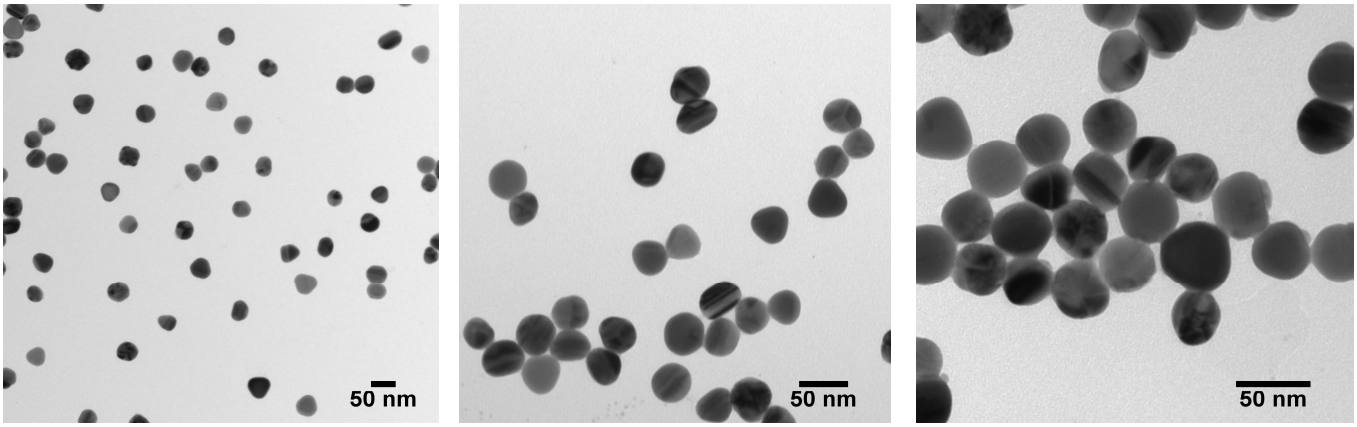
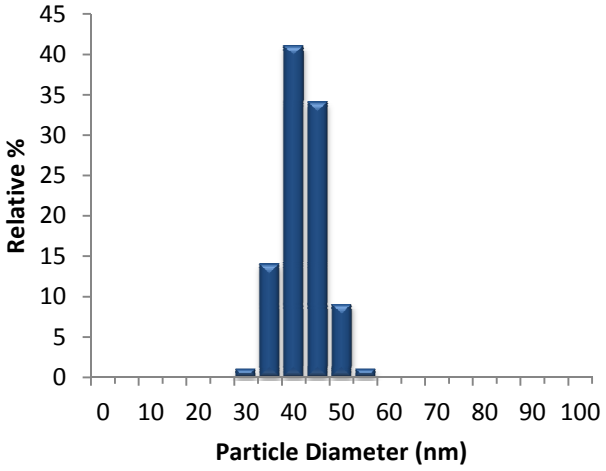
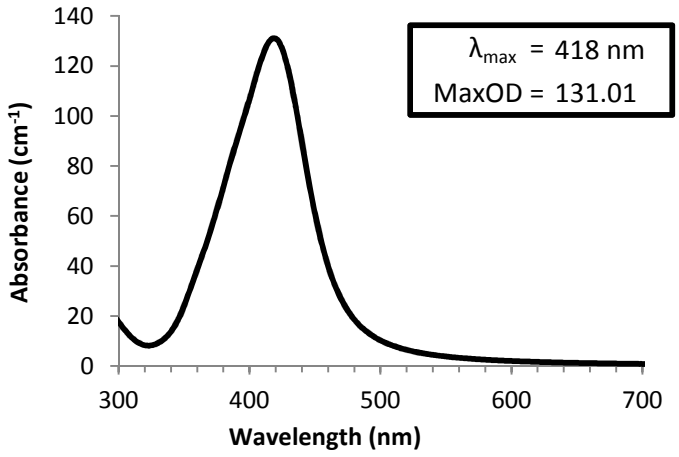
|---|---|---|---|
| **Diameter (TEM):** | 40 ± 5 nm | **Hydrodynamic Diameter:** | 42 nm |
| **Coefficient of Variation:** | 11.5 % | **Zeta Potential:** | -51 mV |
| **Surface Area (TEM):** | 14.1 $m^2/g$ | **pH of Solution:** | 8.8 |
| **Mass Concentration (Ag):** | 1.05 mg/mL | **Silver Purity:** | 99.99 % |
| **Particle Concentration:** | 3.1E+12 particles/mL | **Particle Surface:** | Lipoic Acid |
| **Endotoxin Concentration:** | < 2.5 EU/mL | **Solvent:** | 0.2 mM Potassium Carbonate |




## Size Distribution




## Optical Properties




## Characterization Instrumentation

| | |
|---|---|
| **Diameter and Size Statistics:** | JEOL 1010 Transmission Electron Microscope |
| **Mass Concentration:** | Thermo Fisher X Series 2 ICP-MS |
| **Spectral Properties:** | Agilent 8453 UV-Visible Spectrometer |
| **Hydrodynamic Diameter/Zeta Potential:** | Malvern Zetasizer Nano ZS. |

Storage: 2-8 °C away from light. DO NOT FREEZE.

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