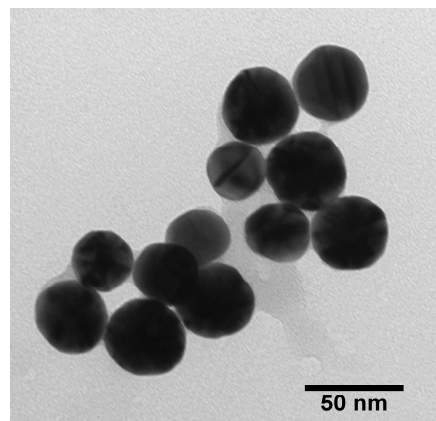
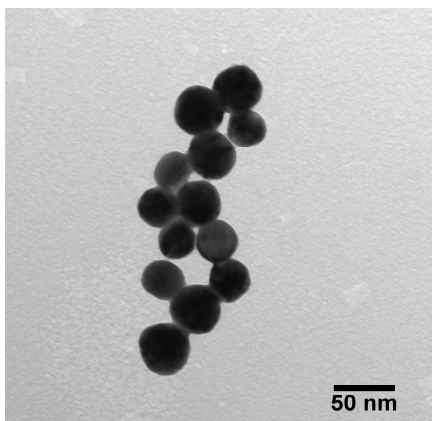
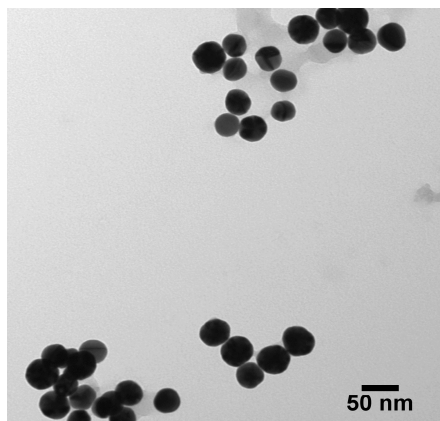


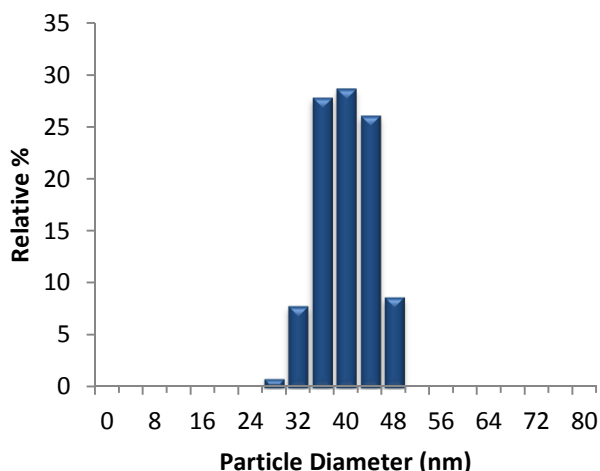
# 40 nm Gold Nanospheres, Lipoic Acid, BioPure™

Lot Number: SCM0072

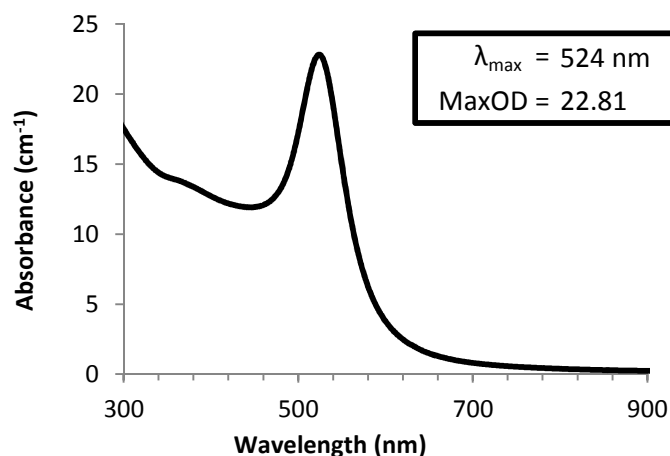
|                                  |                       |                               |               |
|----------------------------------|-----------------------|-------------------------------|---------------|
| <b>Diameter (TEM):</b>           | 38 ± 4 nm             | <b>Hydrodynamic Diameter:</b> | 45 nm         |
| <b>Coefficient of Variation:</b> | 11.7 %                | <b>Zeta Potential:</b>        | -51 mV        |
| <b>Surface Area (TEM):</b>       | 8.0 m <sup>2</sup> /g | <b>pH of Solution:</b>        | 5.8           |
| <b>Mass Concentration (Au):</b>  | 0.98 mg/mL            | <b>Gold Purity:</b>           | 99.99 %       |
| <b>Particle Concentration:</b>   | 1.8E+12 particles/mL  | <b>Particle Surface:</b>      | Lipoic Acid   |
| <b>Endotoxin Concentration:</b>  | < 2.5 EU/mL           | <b>Solvent:</b>               | Milli-Q Water |



**Size Distribution**



**Optical Properties**



## Characterization Instrumentation

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

Storage: 2-8 °C. DO NOT FREEZE.