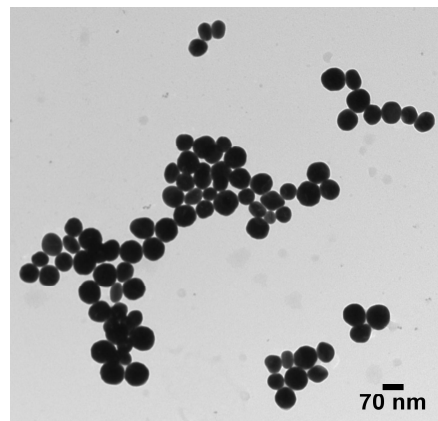
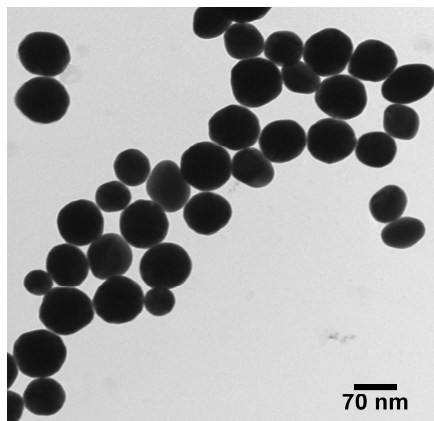
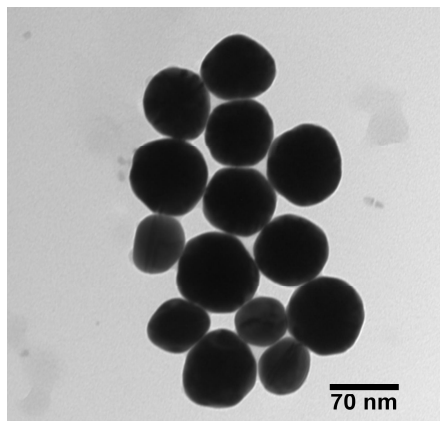


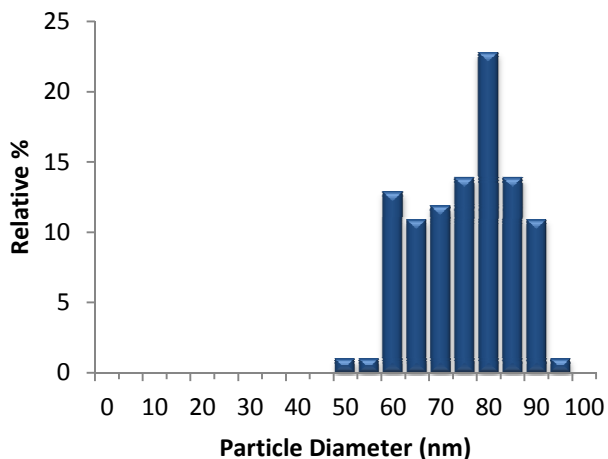
70 nm Lipoic Acid BioPure™ Gold

Lot Number: JMW1616

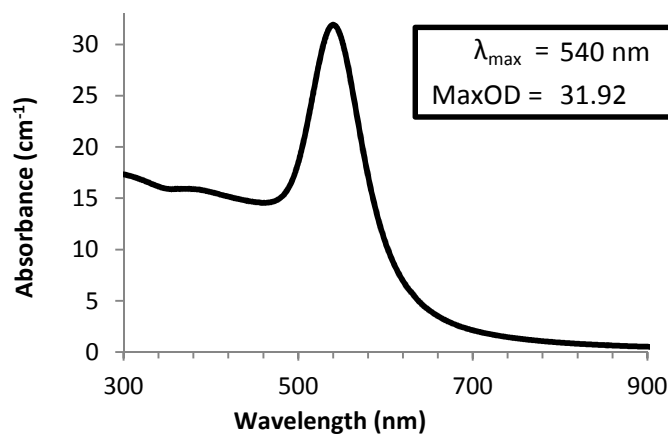
| | | | |
|----------------------------------|-----------------------|-------------------------------|---------------|
| Diameter (TEM): | 72.8 ± 9.7 nm | Hydrodynamic Diameter: | 77.0 nm |
| Coefficient of Variation: | 13.3 % | Zeta Potential: | -33.3 mV |
| Surface Area (TEM): | 4.1 m ² /g | pH of Solution: | 6.8 |
| Mass Concentration (Au): | 1.12 mg/mL | Particle Surface: | Lipoic Acid |
| Particle Concentration: | 2.9E+11 particles/mL | Solvent: | Milli-Q Water |



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 and Handling: 4 °C away from light. DO NOT FREEZE.