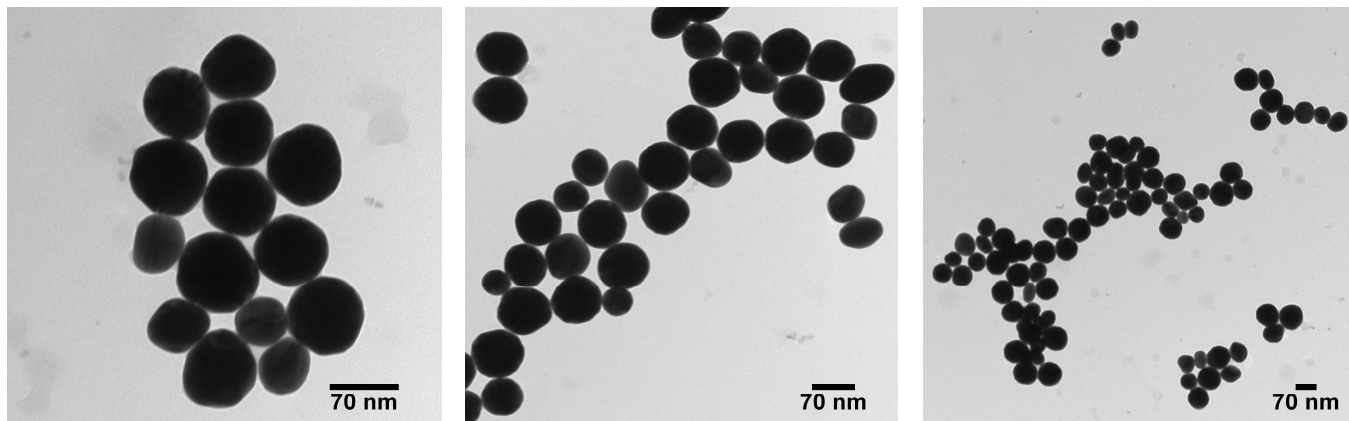


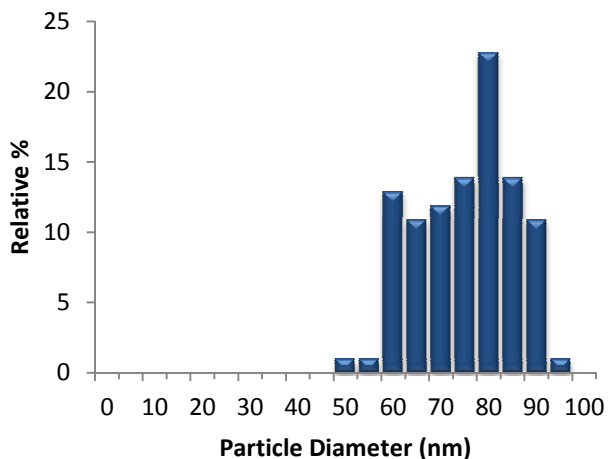
# 70 nm Lipoic Acid NanoXact™ Gold

Lot Number: JCP1131

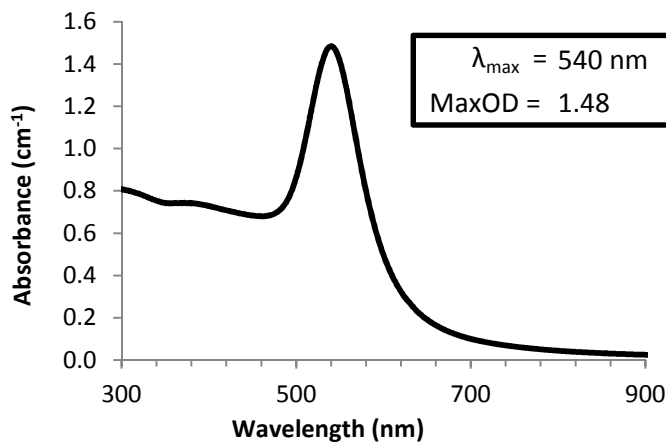
|                                  |                       |                               |               |
|----------------------------------|-----------------------|-------------------------------|---------------|
| <b>Diameter (TEM):</b>           | 72.8 ± 9.7 nm         | <b>Hydrodynamic Diameter:</b> | 77.0 nm       |
| <b>Coefficient of Variation:</b> | 13.3 %                | <b>Zeta Potential:</b>        | -33.3 mV      |
| <b>Surface Area (TEM):</b>       | 4.1 m <sup>2</sup> /g | <b>pH of Solution:</b>        | 5.3           |
| <b>Mass Concentration (Au):</b>  | 0.052 mg/mL           | <b>Particle Surface:</b>      | Lipoic Acid   |
| <b>Particle Concentration:</b>   | 1.3E+10 particles/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 and Handling: 4 °C away from light. DO NOT FREEZE.