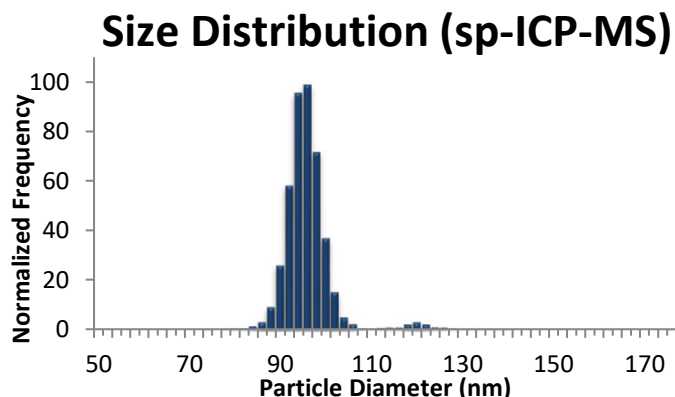
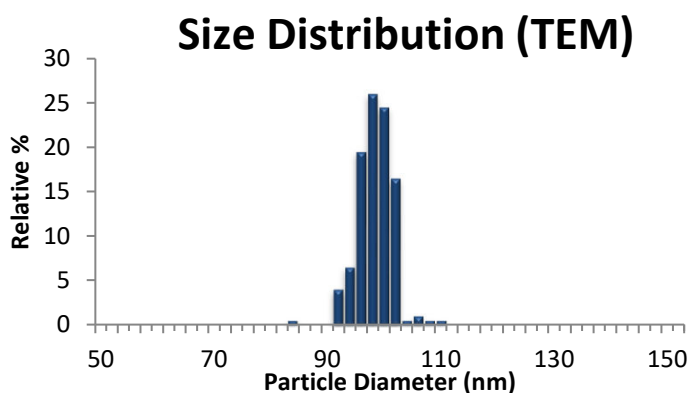
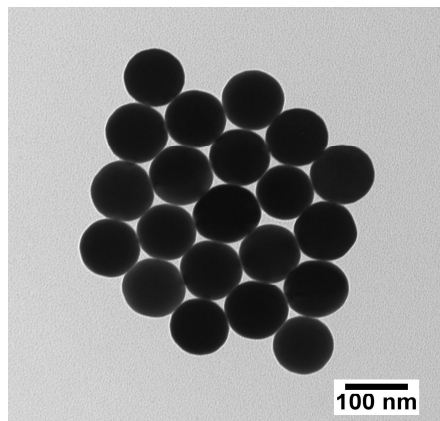
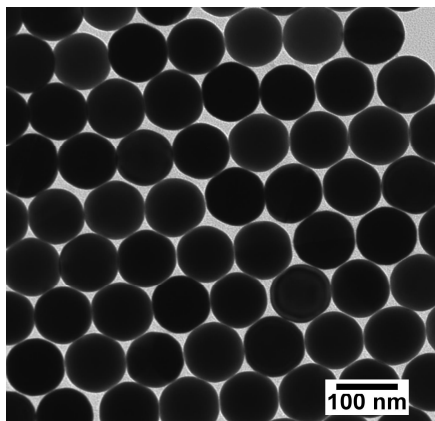
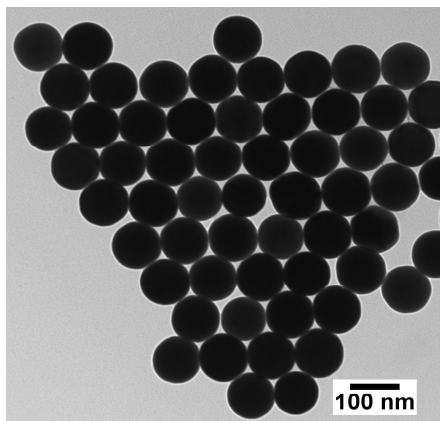


**100 nm Gold Nanospheres, PEG Carboxyl, Ultra Uniform™ Nanoparticle Number Standard**

**Product Number: AUXS100**

**Lot Number: JLC0240**

|   |                      |                                 |                                   |
|---|----------------------|---------------------------------|-----------------------------------|
| <b>Diameter (TEM):</b>                        | 99.4 nm              | <b>Mass Concentration (Au):</b> | 993.5 ng/mL                       |
| <b>Coefficient of Variation (TEM):</b>        | 3.1 %                | <b>pH of Solution:</b>          | 7.5                               |
| <b>Coefficient of Variation (sp-ICP-MS)*:</b> | 5.8 %                | <b>Particle Surface:</b>        | PEG <sub>12</sub> Carboxylic Acid |
| <b>Particle Concentration (sp-ICP-MS)*:</b>   | 0.96E+8 particles/mL | <b>Solvent:</b>                 | Aqueous 1 mM Sodium Citrate       |
| <b>Primary Particle Mode (sp-ICP-MS)*:</b>    | > 90 %               |                                 |                                   |



**Characterization Instrumentation**

|   |   |
|---|---|
| <b>Diameter and Size Statistics:</b>    | JEOL 1010 Transmission Electron Microscope;ImageJ |
| <b>Mass and Particle Concentration:</b> | Agilent 7800 ICP-MS                               |
| <b>pH:</b>                              | Horiba - Laqua Twin pH Meter                      |

\*Doublet particles may be present in the particle size distribution (PSD) and any secondary peak will be < 10% of the total particle counts.

Shipping and storage: 2-25°C, 2-8 °C after opening. Shake vigorously before use.

**DO NOT FREEZE. Expires 6 months after opening.**