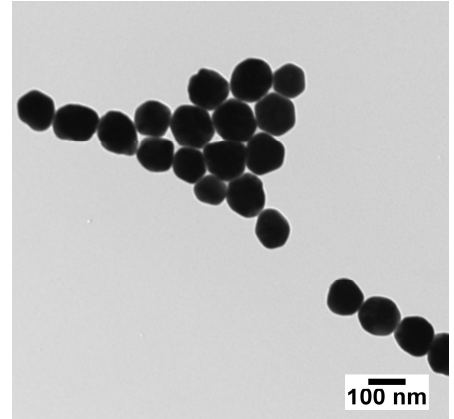
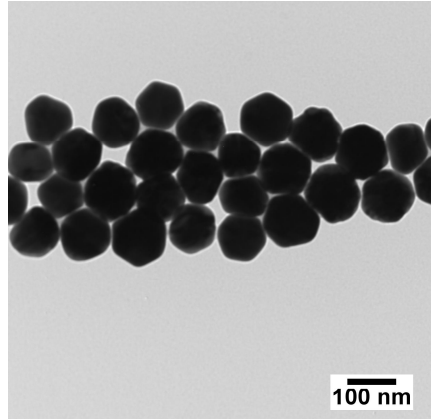
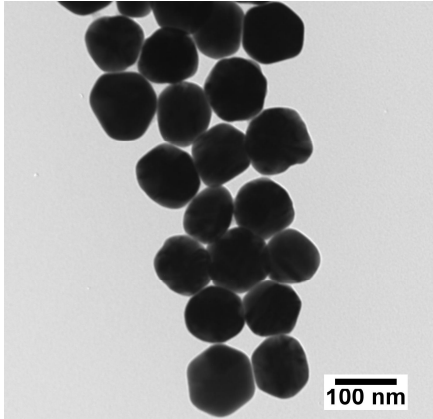


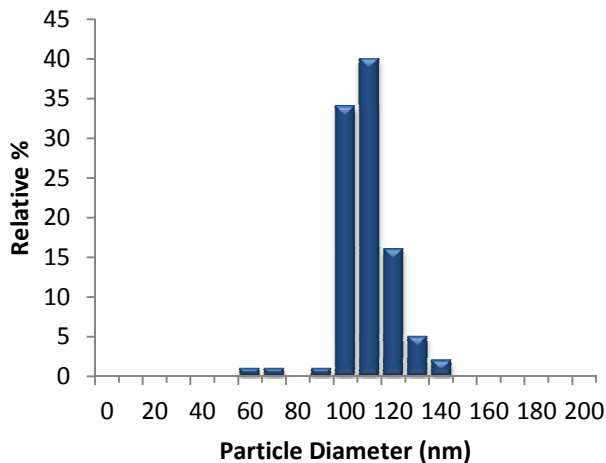
# 100 nm bPEI BioPure™ Silver

Lot Number: JEA0182

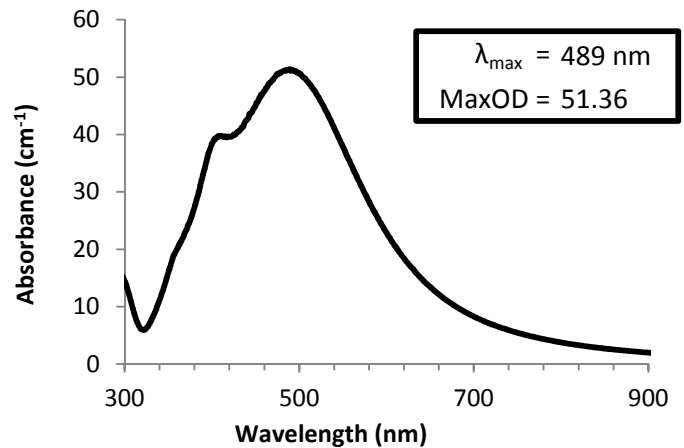
|                                  |                       |                               |               |
|----------------------------------|-----------------------|-------------------------------|---------------|
| <b>Diameter (TEM):</b>           | 103.7 ± 11.4 nm       | <b>Hydrodynamic Diameter:</b> | 123.3 nm      |
| <b>Coefficient of Variation:</b> | 11.0 %                | <b>Zeta Potential:</b>        | 69.1 mV       |
| <b>Surface Area (TEM):</b>       | 5.4 m <sup>2</sup> /g | <b>pH of Solution:</b>        | 7.0           |
| <b>Mass Concentration (Ag):</b>  | 1.08 mg/mL            | <b>Silver Purity:</b>         | 99.99 %       |
| <b>Particle Concentration:</b>   | 1.8E+11 particles/mL  | <b>Particle Surface:</b>      | bPEI          |
| <b>Endotoxin Concentration:</b>  | < 2.5 EU/mL           | <b>Solvent:</b>               | Milli-Q Water |



## Size Distribution



## Optical Properties



### Characterization Instrumentation

**Diameter and Size Statistics:**

**Mass Concentration:**

**Spectral Properties:**

**Hydrodynamic Diameter/Zeta Potential:**

JEOL 1010 Transmission Electron Microscope

Thermo Fisher X Series 2 ICP-MS

Agilent 8453 UV-Visible Spectrometer

Malvern Zetasizer Nano ZS.

Storage: 4-8 °C away from light. DO NOT FREEZE.