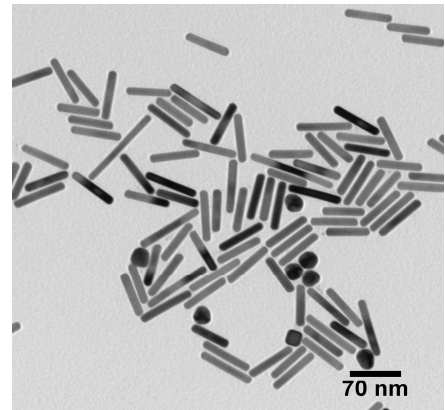
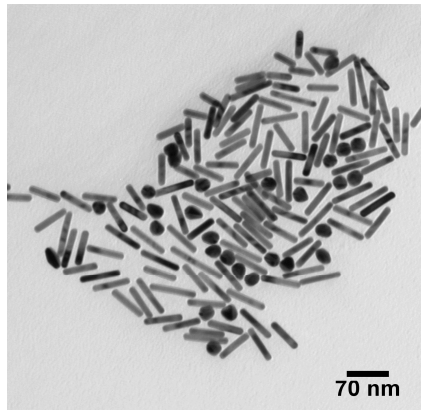
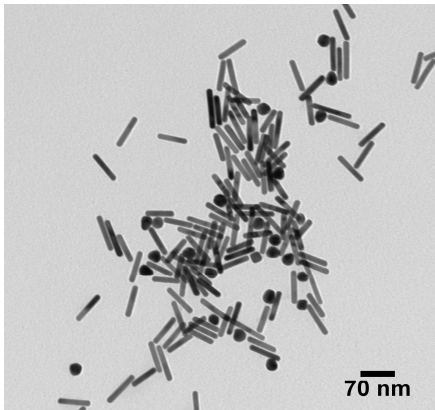


# 980 nm Resonant Gold Nanorods, Citrate, NanoXact™, 1 OD

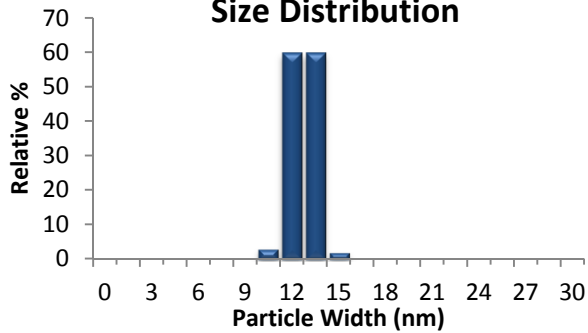
Lot Number: HKE0092

**Average Length (TEM):** 69.3 ± 10.1 nm  
**CV, Length:** 14.6 %  
**Average Width (TEM):** 12 ± 0.8 nm  
**CV, Width:** 6.5 %  
**Average Aspect Ratio:** 5.79  
**% Absorbance at 980 nm:** 98.8 %  
**OD at 980 nm:** 1.07

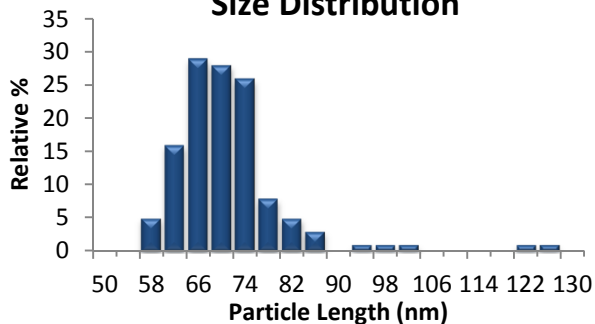
**Mass Concentration (Au):** 0.018 mg/mL  
**Particle Concentration:** 1.40E+11 parts/mL  
**Hydrodynamic Diameter:** 19 nm  
**Zeta Potential:** -32 mV  
**pH of Solution:** 5.5  
**Particle Surface:** Sodium Citrate  
**Solvent:** Milli-Q Water



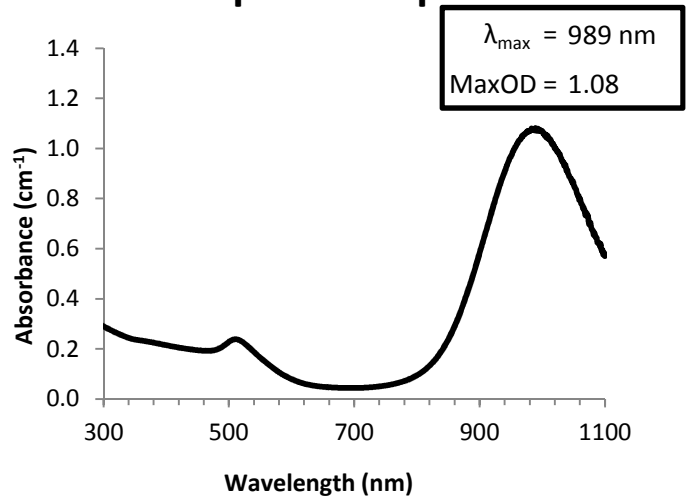
**Size Distribution**



**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: 2-8 °C. DO NOT FREEZE.