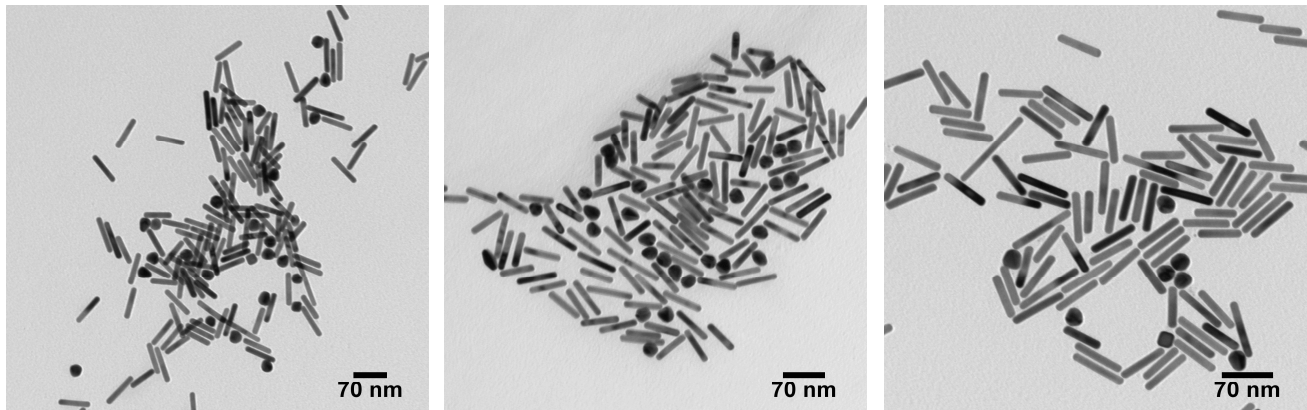


# 980 nm Resonant Gold Nanorods, Citrate, NanoXact™, 50 OD

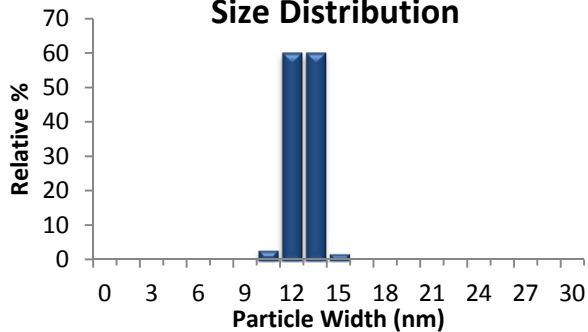
Lot Number: HKE0089

**Average Length (TEM):** 69.3 ± 10.1 nm  
**CV, Length:** 14.6 %  
**Average Width (TEM):** 12.0 ± 0.8 nm  
**CV, Width:** 6.5 %  
**Average Aspect Ratio:** 5.79  
**% Absorbance at 980 nm:** 99.4 %  
**OD at 980 nm:** 52.38

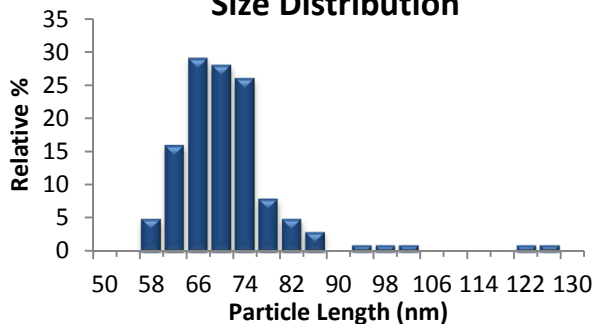
**Mass Concentration (Au):** 0.86 mg/mL  
**Particle Concentration:** 6.81E+12 parts/mL  
**Hydrodynamic Diameter:** 19 nm  
**Zeta Potential:** -32 mV  
**pH of Solution:** 7.0  
**Particle Surface:** Sodium Citrate  
**Solvent:** Milli-Q Water



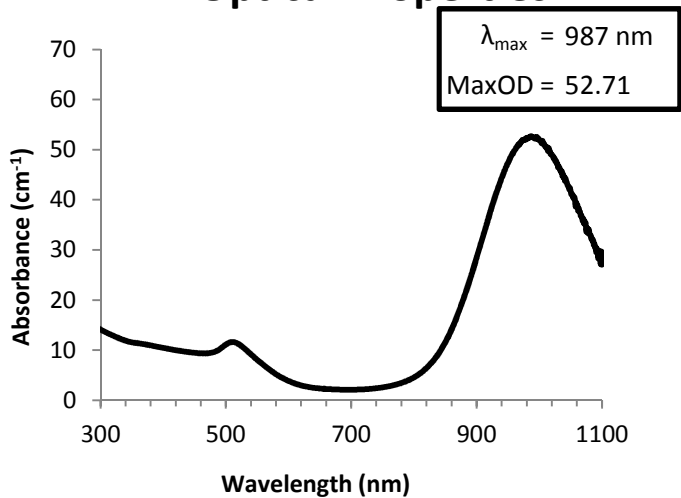
**Size Distribution**



**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: 2-8 °C. DO NOT FREEZE.