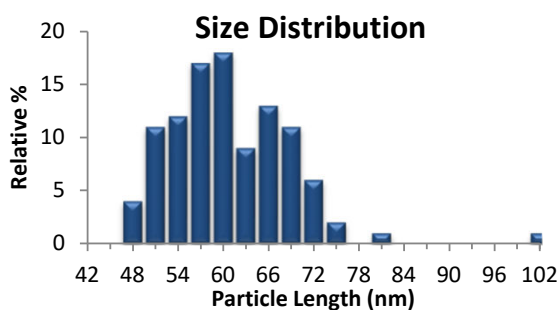
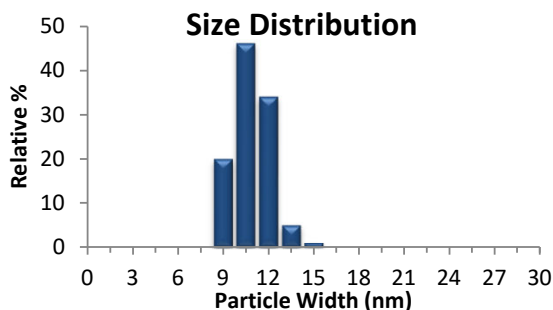
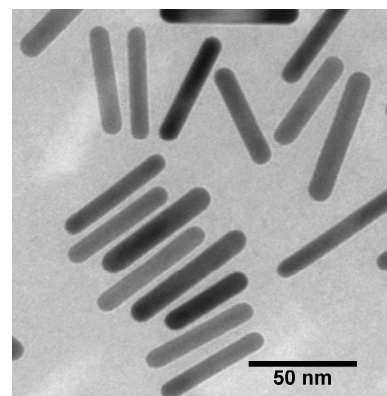
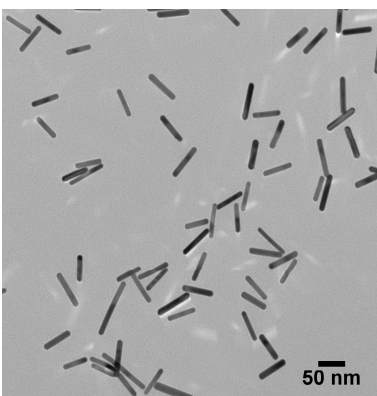
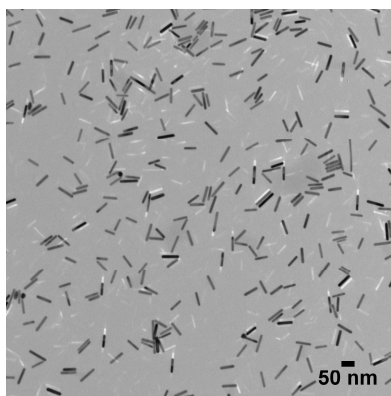


**Gold Nanorods, Peak Absorbance @ 980 nm, Citrate, NanoXact™, 1 OD**

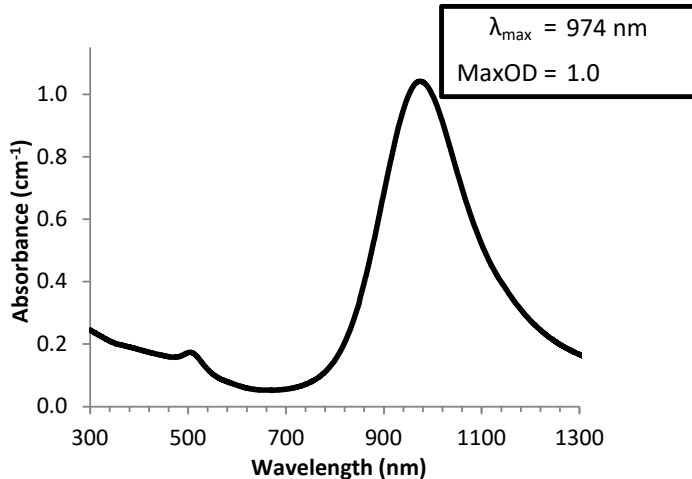
Product Number: GRCN980

Lot Number: SLD0082

<b>Length (TEM):</b>	59.9 nm	<b>Mass Concentration (Au):</b>	0.017 mg/mL
<b>CV, Length:</b>	15.6 %	<b>Particle Concentration (Calc'd):</b>	2.2E+11 parts/mL
<b>Width (TEM):</b>	10.1 nm	<b>Hydrodynamic Diameter*:</b>	6 nm
<b>CV, Width:</b>	11.9 %	<b>Zeta Potential:</b>	-49 mV
<b>Average Aspect Ratio:</b>	5.99	<b>pH of Solution:</b>	7.0
<b>% Absorbance at 980 nm:</b>	99.8 %	<b>Particle Surface:</b>	Bare (Citrate)
<b>OD at 980 nm:</b>	1.04	<b>Solvent:</b>	USP Purified Water



**Optical Properties**



**Characterization Instrumentation**

<b>Diameter and Size Statistics:</b>	JEOL 1010 Transmission Electron Microscope; ImageJ
<b>Mass Concentration:</b>	Agilent 7800 ICP-MS
<b>Spectral Properties:</b>	Jasco V-670 NIR Spectrophotometer
<b>Hydrodynamic Diameter/Zeta Potential:</b>	Malvern Zetasizer Nano ZS
<b>pH:</b>	Horiba - Laqua Twin pH Meter

**Storage: 2-8 °C. DO NOT FREEZE.**

\*The aspect ratio of gold nanorods is too high to measure hydrodynamic diameter accurately; the actual size is larger than reported\*