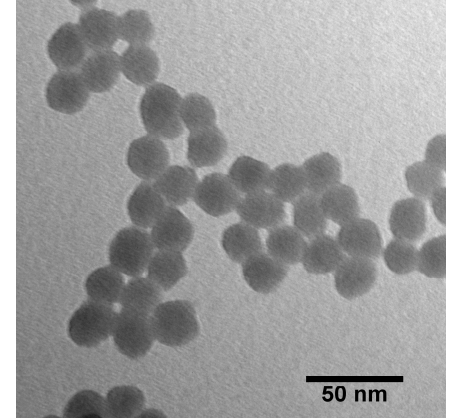
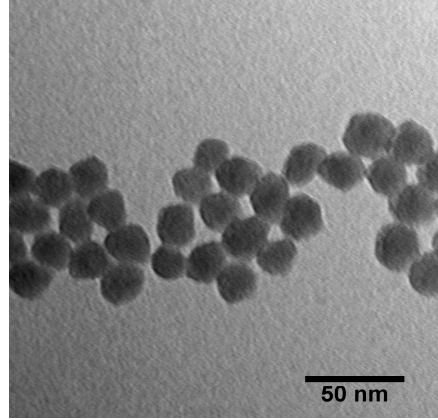
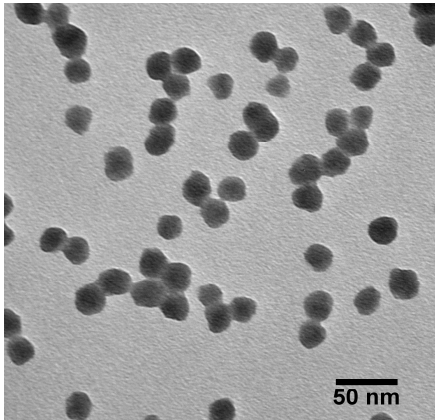


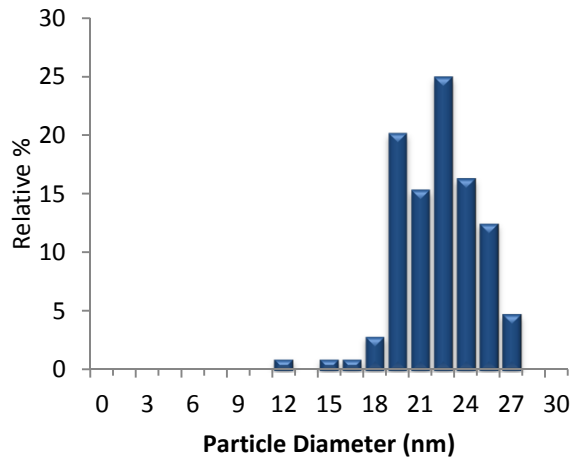
# 20 nm Silica Nanospheres, NanoXact™

Lot Number: JRC0080

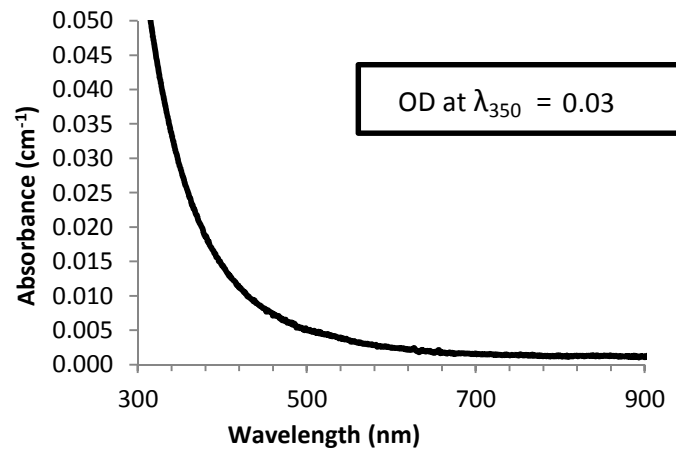
<b>Diameter (TEM):</b>	21.4 ± 2.7 nm	<b>Hydrodynamic Diameter:</b>	22 nm
<b>Coefficient of Variation:</b>	12.5 %	<b>Zeta Potential:</b>	-31 mV
<b>Surface Area (TEM):</b>	123.8 m <sup>2</sup> /g	<b>pH of Solution:</b>	8.9
<b>Mass Concentration (SiO<sub>2</sub>)</b>	5.2 mg/mL	<b>Particle Surface:</b>	Silanol
<b>Particle Concentration:</b>	4.6E+14 particles/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

Gravimetric Analysis- AND HM-202

Agilent 8453 UV-Visible Spectrometer

Malvern Zetasizer Nano ZS.

Shake vigorously before use. Bath sonicate if needed. Storage: 25°C. DO NOT FREEZE.