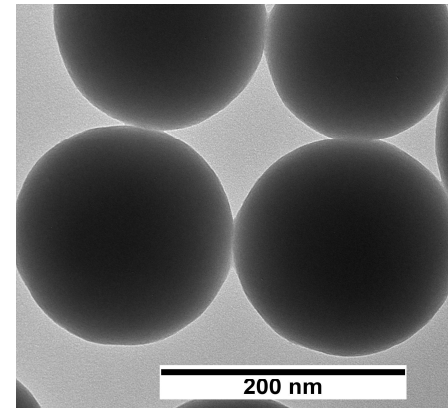
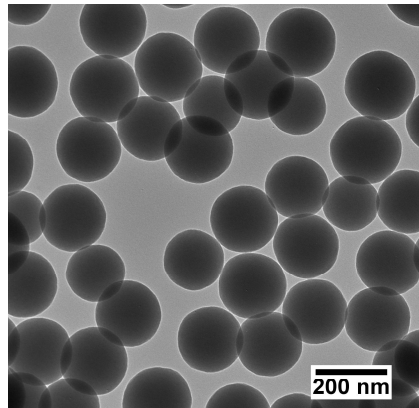
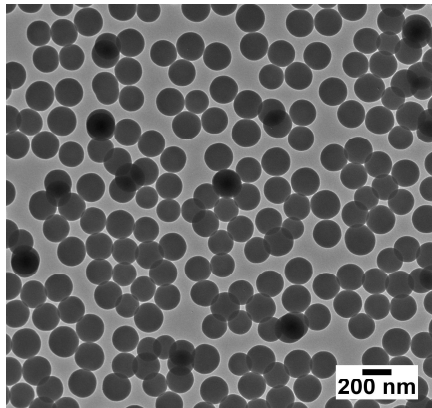


200 nm Silica Nanospheres, Aminated, NanoXact™

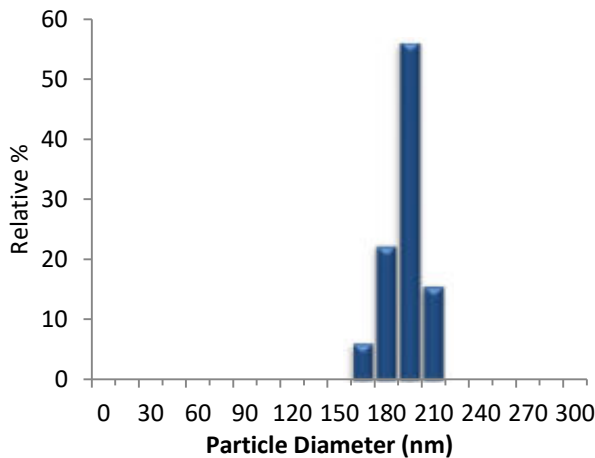
Product Number: SIAN200

Lot Number: KAM0267

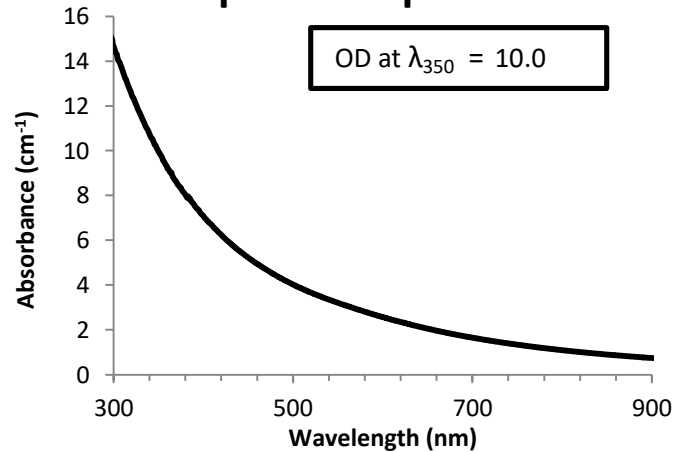
| | | | |
|--|------------------------|-------------------------------|-----------------------------------|
| Diameter (TEM): | 200 ± 11 nm | Hydrodynamic Diameter: | 245 nm |
| Coefficient of Variation: | 5.5 % | Zeta Potential: | + 39.5 mV |
| Mass Concentration (SiO₂): | 10.2 mg/mL | Zeta pH: 5.4 | Zeta Solvent: 2 mM Acetate |
| Particle Concentration (Calc'd)*: | 1.1E+12 particles/mL | Particle Surface: | Aminated/Cationic |
| Surface Area (Calc'd): | 13.6 m ² /g | Solvent: | Ethanol |



Size Distribution



Optical Properties



Characterization Instrumentation

| | |
|--|--|
| Diameter and Size Statistics: | JEOL 1010 Transmission Electron Microscope; ImageJ |
| Mass Concentration: | AND HM-202 Analytical Balance (Gravimetric Analysis) |
| Spectral Properties: | Agilent 8453 UV-Visible Spectrometer |
| Hydrodynamic Diameter/Zeta Potential: | Malvern Zetasizer Nano ZS |
| pH: | Horiba - Laqua Twin pH Meter |

Shake vigorously before use. Bath sonicate if needed. Shipping and storage: 2-25°C. DO NOT FREEZE. To minimize ethanol evaporation, store in a cool place, minimize bottle head space and cap tightly.

*Particle concentration calculated using density of 2.2 g/cm³