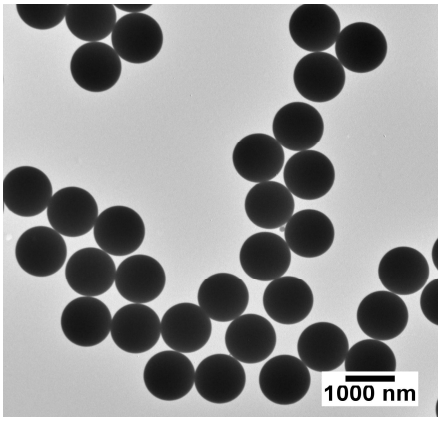
nanoComposix

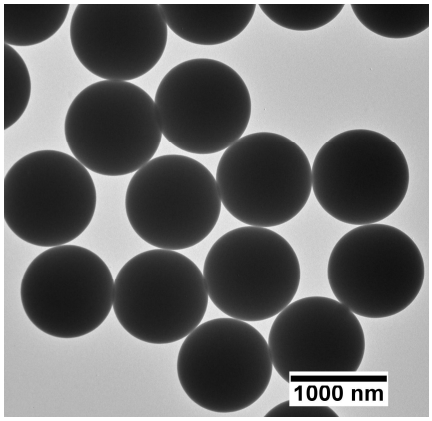
Certificate of Analysis

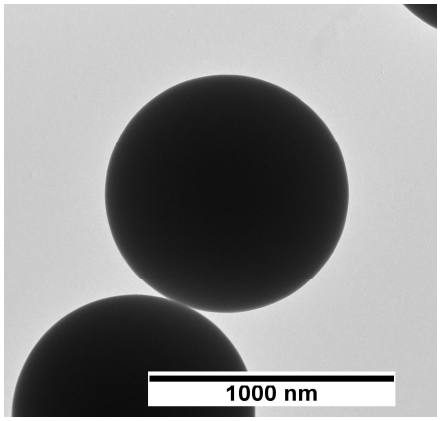
1 µm Silica Nanospheres, Aminated, NanoXact™

Product Number: SIAN1000 **Lot Number: LBE0098**

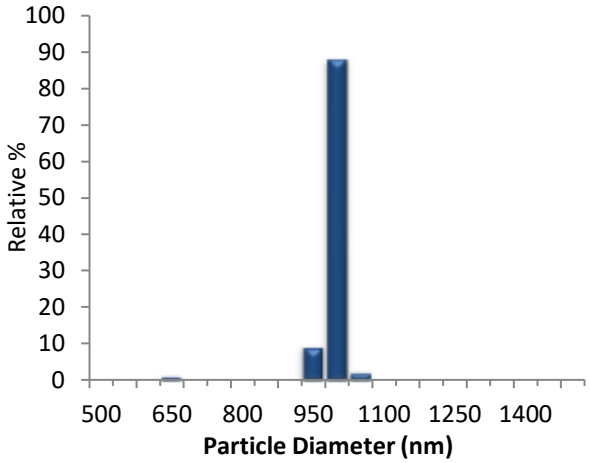
Diameter ± Std.Dev (TEM):	1014 ± 37 nm	**Hydrodynamic Diameter:**	1276 nm
Coefficient of Variation:	3.7 %	**Zeta Potential:**	+ 35.5 mV
Surface Area (Calc'd):	2.7 m^2/g	**Zeta pH:**	**Zeta Solvent:** 2 mM Acetate
Mass Concentration (SiO_2):	10.1 mg/mL	**Particle Surface:**	Aminated/Cationic
Particle Concentration (Calc'd)*:	8.4E+09 particles/mL	**Solvent:**	Ethanol



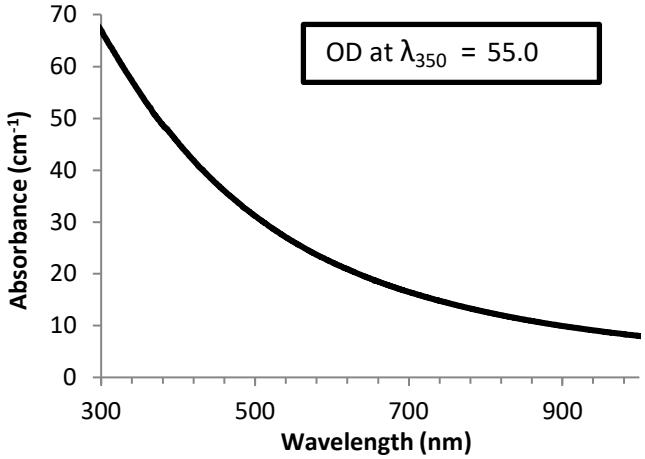




Size Distribution



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. 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

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