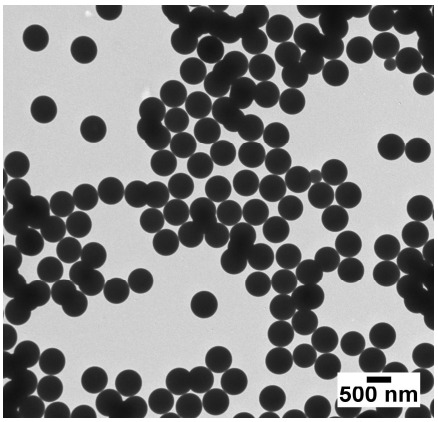
nanoComposix

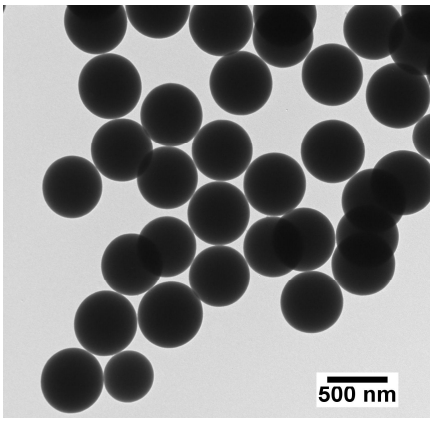
Certificate of Analysis

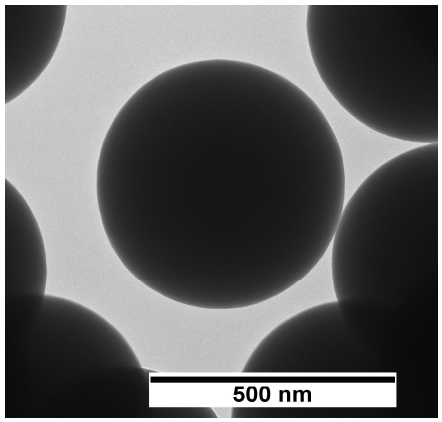
500 nm Silica Nanospheres, Aminated, NanoXact™

Product Number: SIAN500 **Lot Number: SDC0137**

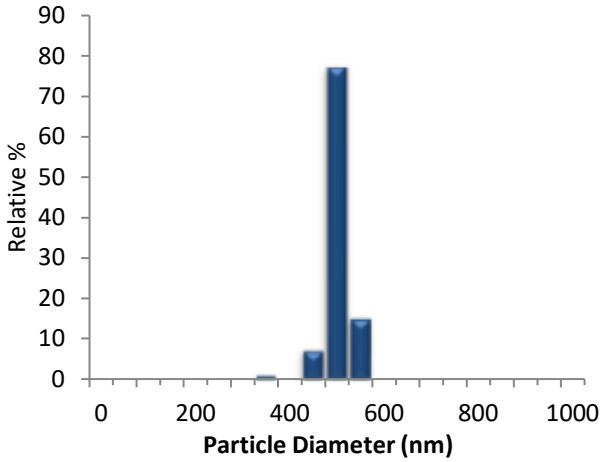
Diameter ± Std.Dev (TEM):	532 ± 26 nm	**Hydrodynamic Diameter:**	543 nm
Coefficient of Variation:	4.8 %	**Zeta Potential:**	+ 59.5 mV
Mass Concentration (SiO_2):	10.4 mg/mL	**Zeta pH:** 4.8	**Zeta Solvent:** 2 mM Acetate
Particle Concentration (Calc'd)*:	6.0E+10 particles/mL	**Particle Surface:**	Aminated/Cationic
Surface Area (Calc'd):	5.1 m^2/g	**Solvent:**	Ethanol



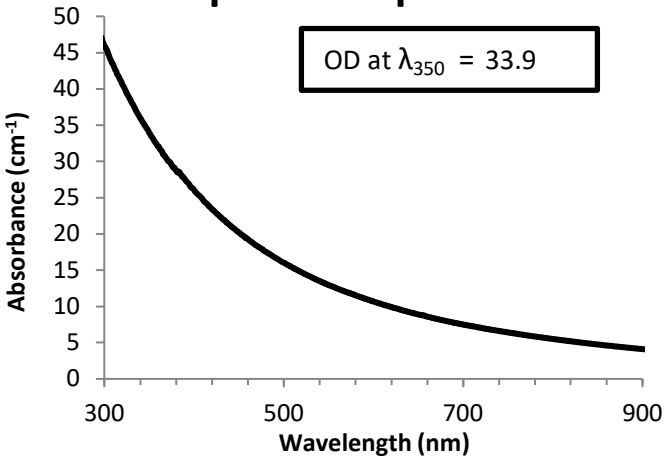




Size Distribution



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. 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

nanoComposix, Inc
4878 Ronson Ct. Suite K
San Diego, CA 92111
United States

info@nanocomposix.com
Phone: (858) 565-4227
Fax: (619) 330-2556
nanocomposix.com

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