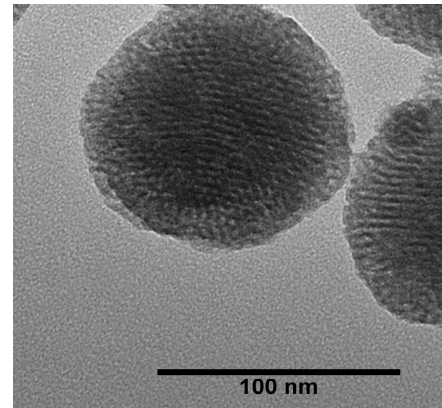
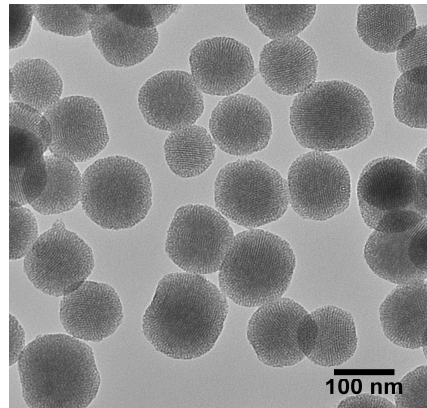
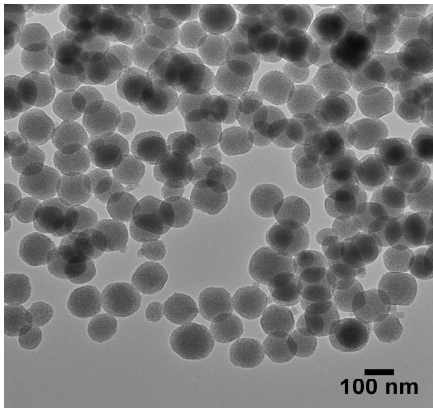


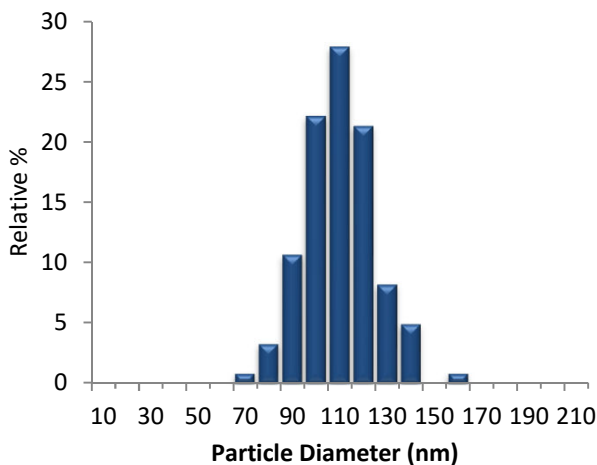
100 nm Mesoporous Silica Nanospheres, Hexagonal, NanoXact™

Product Number: SHSN100
Lot Number: JRC0610

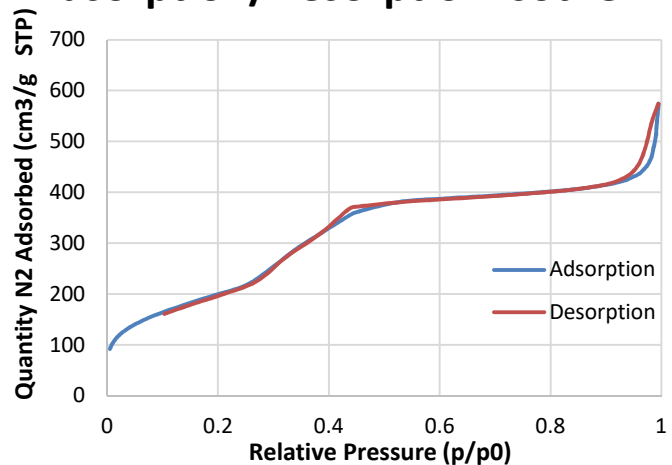
Diameter ± Std.Dev (TEM):	105 ± 15 nm	Hydrodynamic Diameter:	239 nm
Coefficient of Variation:	14.6 %	Zeta Potential:	-8 mV
Surface Area (BET):	742 m ² /g	Zeta pH: 6.15	Zeta Solvent: DI Water
Mass Concentration (SiO₂):	5.2 mg/mL	Particle Surface:	Silanol
Particle Concentration (Calc'd)*:	1.2E+13 particles/mL	Solvent:	Ethanol
Pore volume (BET):	0.676 cm ³ /g	Pore diameter (BET):	3.74 nm



Size Distribution



Adsorption/Desorption Isotherm



Characterization Instrumentation

Diameter and Size Statistics:	JEOL 1010 Transmission Electron Microscope; ImageJ
Mass Concentration:	AND HM-202 Analytical Balance (Gravimetric Analysis)
Nitrogen adsorption (BET):	Micromeritics Tristar II
Hydrodynamic Diameter/Zeta Potential:	Malvern Zetasizer Nano ZS
pH:	Horiba - Laqua Twin pH Meter

Shake vigorously before use. Bath sonicate if needed. Storage: 2-15 °C. DO NOT FREEZE.
To minimize ethanol evaporation, store in a cool place, minimize bottle head space and cap tightly.

*Particle concentration calculated using a measured density of 0.69 g/cm³