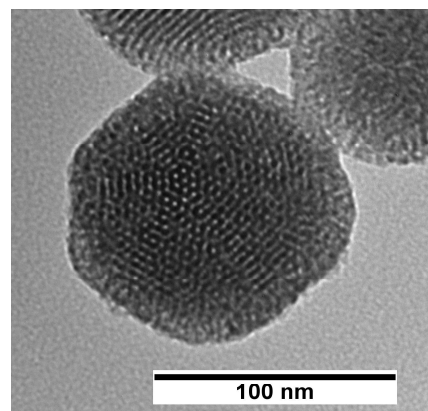
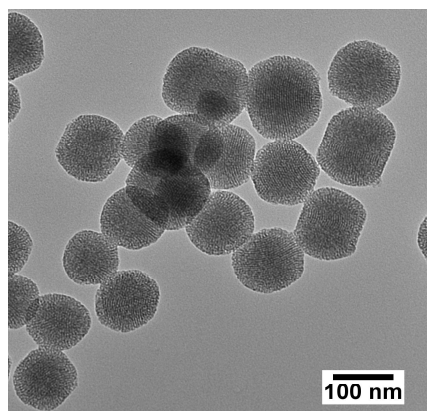
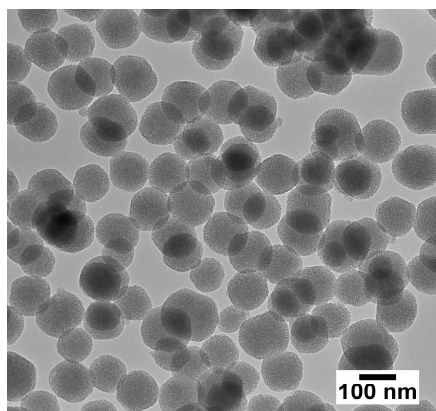
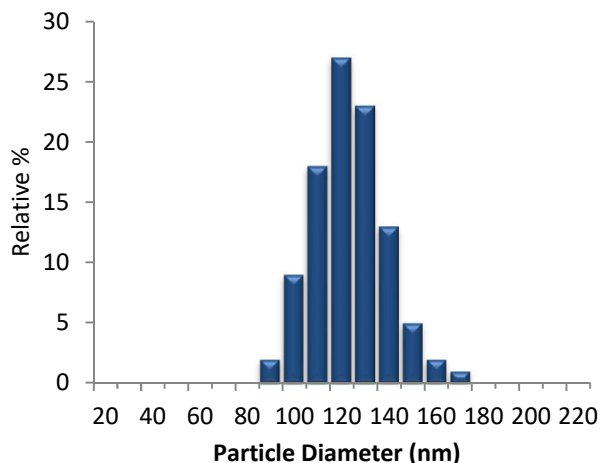
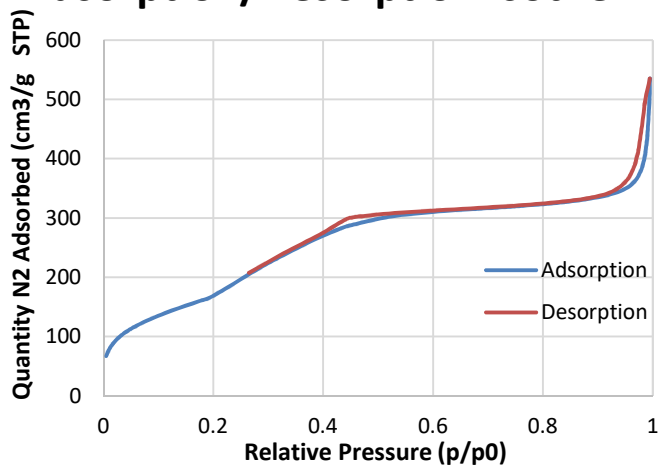


100 nm Mesoporous Silica Nanospheres, Hexagonal, Aminated, NanoXact™
Product Number: SHAN100
Lot Number: CWW0151

Diameter ± Std.Dev (TEM):	119 ± 15 nm	Hydrodynamic Diameter:	241 nm
Coefficient of Variation:	12.5 %	Zeta Potential:	+ 31.2 mV
Surface Area (BET):	629 m ² /g	Zeta pH: 5.2	Zeta Solvent: 2 mM Acetate
Mass Concentration (SiO₂):	5.2 mg/mL	Particle Surface:	Aminated/Cationic
Particle Concentration (Calc'd)*:	8.7E+12 particles/mL	Solvent:	Ethanol
Pore volume (BET):	0.558 cm ³ /g	Pore diameter (BET):	3.18 nm


Size Distribution

Adsorption/Desorption Isotherm

Characterization Instrumentation
Diameter and Size Statistics:
Mass Concentration:
Nitrogen adsorption (BET):
Hydrodynamic Diameter/Zeta Potential:
pH:

JEOL 1010 Transmission Electron Microscope; ImageJ

AND HM-202 Analytical Balance (Gravimetric Analysis)

Micromeritics Tristar II

Malvern Zetasizer Nano ZS

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