

Materials List for:

Synthesis of Monodisperse Cylindrical Nanoparticles via Crystallization-driven Self-assembly of Biodegradable Block Copolymers

Zachary Coe¹, Andrew Weems¹, Andrew P. Dove¹, Rachel K. O'Reilly¹

¹Department of Chemistry, University of Birmingham

Correspondence to: Zachary Coe at Z.Coe@pgr.bham.ac.uk

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Materials

Name	Company	Catalog Number	Comments
2,2'-azobisisobutyronitrile	Sigma Aldrich		
250 mL ampoule			
250 mL two neck RBF			
Ampoule (25 mL)			
B19 tap			
B24 stopper			
Basic Alumina	Fluka		
Buchner Flask			
Buchner Funnel			
Caesium Hydride			
Cannulae			
caprolactone	Arcos Organics		
Chain Transfer Agent	Made in House		
Conical Flask (multiple sizes)			
Dessicator			
Diethyl Ether	Merck		
Dioxane	Fisher		
diphenylphosphate	Sigma Aldrich		
Distillation Condenser			
Ethanol	Fisher		
Filter Paper (multiple sizes)			
Gel Permeation Chromatography Instrument	Agilent Technologies Infinity 1260 II		Running DMF at 50 °C
Glovebox	Mbraun, Unilab		
Hotplate	IKA, RCT basic		
Mercury Thermometer			
Methyl Methacrylate	Sigma Aldrich		
Molecular sieves	Fisher	MS/1030/53	
N,N-dimethyl acrylamide	Sigma Aldrich		
NMR spectrometer	Bruker 400 MHz		
Phosphorus pentoxide	Sigma Aldrich		
RBF (multiple sizes)			
Schlenk Cap (B24)			
Schlenk Flask (250 mL)			

Schlenk Line			
Sonication Probe	Bandelin Sonoplus		
Suba Seal (multiple sizes)			
TEM grids	EmResolutions, Formvar/carbon film 300 mesh copper		
THF	Merck		
three neck adaptor			
Toluene	Fisher		
Transmission Electron Microscope	Jeol 2100		