

Materials List for:

Synthesis of Cyclic Polymers and Characterization of Their Diffusive Motion in the Melt State at the Single Molecule Level

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Materials

Name	Company	Catalog Number	Comments
Materials			
THF	Godo		
Wakosil C-300	Wako Pure Chemical Industries		
Acetone	Godo		
Toluene	Godo		
<i>n</i> -Hexane	Godo		
CHCl ₃	Kanto Chemical		
Bio-Beads S-X1	Bio-Rad		
Methyl triflate	Nacalai Tesque		
Triflic anhydride	Nacalai Tesque		
Potassium Hydroxide	Wako Pure Chemical Industries		
Ethanol	Wako Pure Chemical Industries		
Poly(tetrahydrofuran)	Aldrich		
Chloroform	Wako Pure Chemical Industries		
Immersion oil	Cargille	Type 37 / Type A	
Equipment			
2-Neck 100-ml round-bottom flask			
Flask			
Beaker			
Funnel			
Filter paper	Whatman		
Reflux condenser			
Syringe			
Water bath			
Magnetic stirrer			
Rotary evaporator			
Microscope cover slips (24 x 24 mm, No. 1)	Matsunami Glass	CO22241	
Staining jar	AS ONE Corporation	1-7934-01	
Ultrasonic cleaner	VWR International	142-0047	
Inverted microscope	Olympus	IX71	
Ar-Kr ion laser	Coherent	Innova 70C	

Berek compensator	Newport	5540	
Excitation filter	Semrock	LL01-488-12.5	
Dichloric mirror	Omega optical	500DRLP	
Emission filter	Semrock	BLP01-488R-25	
Lens and mirror	Thorlabs		
EM-CCD camera	Andor Technology	iXon	
Objective lens (100X, N.A. = 1.3)	Olympus	UPLFLN 100XOP	
Objective heater	Bioptechs		
Preparative GPC	Japan Analytical Industry	LC-908	