

Materials List for:

Combining Microfluidics and Microrheology to Determine Rheological Properties of Soft Matter during Repeated Phase Transitions

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Materials

Name	Company	Catalog Number	Comments
150 x 15 mm Petri Dish	Corning, Inc.	351058	
75 x 50 x 0.15 mm glass slide	Fisher Scientific	Custom	
75 x 50 x 1.0 mm glass slide	Fisher Scientific	12-550-C	
75 x 25 x 1.0 mm glass Slide	Fisher Scientific	12-550-A3	
22 x 22 Glass cover slips	Fisher Scientific	12-542-B	
Acetone, 99.5%	VWR Analytical	67-64-1	
Low intensity UV source	UVP	UVL-56	
Chloroform, 99.9%	Fisher Chemical	C298-500	
Cotton Swabs	Q-tips	83289205	
Ethanol, 90%	Fisher Chemical	A962-4	
Fluoresbrite® YG Carboxylate Microspheres 0.50µm	Polysciences, Inc.	15700-10	
High-Intensity UV Lamp	Spectroline Corp.	SB-100P	
Hot plate	Corning, Inc.	PC-420	
Hydrochloric Acid, 6N	Ricca Chemical Company	3750-32	
Methyltriethoxysilane, 98%	Acros Organics	174622500	
Microcentrifuge	Eppendorf	5424	
Plasma cleaner	Harrick Plasma, Inc.	PDC-32G	
Polydimethylsiloxane (PDMS)	Robert McKown Company	2065622	
Sonicator	Branson, Emerson Electric	1800	
Steel connectors, ID 0.023 inch	New England Small Tube Corp.	Custom	
Tetraethoxysilane, 98%	Alfa Aesar	A14965	
Thiol-ene Resin (UV curable)	Norland Products, Inc.	NOA81	
Transparency	Staples Inc.	21828	
Tygon tubing, ID 1/32 inch	McMaster-Carr	E-3603	
Vacuum oven	Fisher Scientific	282A	
Biopsy punch 8 mm	World Precision Instruments	504535	
Biopsy punch 0.5 mm	World Precision Instruments	504528	
Syringe, 30 mL	BD	309659	
Syringe, 3 mL	BD	309651	
Needle, 18 gauge	BD	305195	
Microcentrifuge tube, 1.5 mL	Eppendorf	22-36-320-4	
High-speed Camera	Vision Research	Miro M120	

Microscope	Carl Zeiss AG	Zeiss Observer, Z1	
Syringe pump	New Era Pump Systems	NE-300	
Hydrogenated castor oil	Procter & Gamble	N/A	
Aficio MP 6002 Printer	Ricoh Company, Ltd.	415877	