

Materials List for:

Microfluidic Preparation of Liquid Crystalline Elastomer Actuators

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Materials

Name	Company	Catalog Number	Comments
NanoTight fitting for 1/16" OD tubings	Postnova_IDEX	F-333N	
NanoTight ferrule for 1/16" OD tubings	Postnova_IDEX	F-142N	
PEEK Tee for 1/16" OD Tubing	Postnova_IDEX	P-728	T-junction
Female Fitting for 1/16" OD Tubing	Postnova_IDEX	P-835	female luer-lock
Male Fitting for 1/8" OD Tubing	Postnova_IDEX	P-831	male luer-lock
Female Luer Connectors for use with 3/32" ID tubings	Postnova_IDEX	P-858	for the syringe's tip
NanoTight FEP tubing sleeve ID: 395 µm OD: 1/16"	Postnova_IDEX	F-185	
Fused Silica Capillary Tubing ID: 100 µm OD: 165 µm	Postnova	Z-FSS-100165	glass capillary
Fused Silica Capillary Tubing ID: 280 µm OD: 360 µm	Postnova	Z-FSS-280360	glass capillary
"Pump 33" DDS	Harvard Apparatus	70-3333	syringe pump
Precision hot plate	Harry Gestigkeit GmbH	PZ 28-2	
Stereomicroscope stemi 2000-C	Carl Zeiss Microscopy GmbH	455106-9010-000	
Mercury vapor lamp Oriel LSH302	LOT		Intensity: 500 W
Teflon Kapillare, 1/16" x 0,75mm	WICOM	WIC 33104	teflon tube
Teflon Kapillare, 1/16" x 0,50mm	WICOM	WIC 33102	teflon tube
Teflon Kapillare, 1/16" x 0,17mm	WICOM	WIC 33101	teflon tube
Silicion oil 1.000 cSt	Sigma Aldrich	378399	
Silicion oil 100 cSt	Sigma Aldrich	378364	
1,6-hexanediol dimethacrylate	Sigma Aldrich	246816	Crosslinker
Lucirin TPO	Sigma Aldrich	415952	Initiator
Polarized optical microscope BX51	Olympus		For analysis
Hotstage TMS 94	Linkam		For analysis
Imaging software Cell^D	Olympus		For analysis