

Materials List for:

A Microfluidic Technique to Probe Cell Deformability

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Materials

Name	Company	Catalog Number	Comments
Pluronic F-127 Block Copolymer Surfactant	Fisher Scientific	8409400	Produced by BASF, also available through Sigma
PDMS base and crosslinker	Essex Brownell	DC-184-1.1	Product commonly named Sylgard 184 Elastomer
Oxygen plasma discharge unit	Enercon	Dyne-A-Mite 3D Treater	
Biopsy Punch, Harris Uni-Core (0.75 mm)	Ted Pella, Inc.	15072	
Fingertight Ferrule, 1/32"	Upchurch Scientific	UP-F-113	
Fingertight III Fitting, 10-32	Upchurch Scientific	UP-F-300X	
Polyetheretherketone (PEEK) tubing, outer diameter = 1/32" or 0.79 mm	Valco	TPK.515-25M	
Polyethylene (PE-20) tubing, 0.043" or 1.09 mm	Becton Dickinson	427406	
Pressure regulator	Airgas or Praxair		
Polyurethane tubing, 5/32" OD	McMaster Carr	5648K284	
Push-to-connect fittings	McMaster Carr	5111K91	
Voltage to Pressure (E/P) Electropneumatic Converter	Omega	IP413-020	
16-bit, 250 kS/S, 80 Analog Inputs Multifunction DAQ	National Instruments	NI PCI 6225-779295-01	
Analog Connector Block-Screw Terminal	National Instruments	SCB-68-776844-01	
LabView System Design Software	National Instruments		
MATLAB Software	The MathWorks, Inc.	MATLAB R2012a	Code requires the Image Processing Toolbox
Shielded Cable	National Instruments	SHC68-68	