

Materials List for:

Microfabricated Platforms for Mechanically Dynamic Cell Culture

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Materials

Name	Company	Catalog Number	Comments
Sylgard 184 PDMS Monomer and Crosslinker Kit	Dow Corning		
SU-8 masters			
Silanization agent: (tridecafluoro-1, 1, 2, 2-tetrahydrooctyl)-1-trichlorosilane	United Chemical Technologies		
Foam pads			Craft supply stores, 1-2 mm thick
Overhead inkjet transparencies	Grand Toy		
Plexiglass plates			
C-clamp			hardware store
Micromanipulator system	Siskiyou, Inc.		
Custom-made vaccum mount			
Vision system, Navitar 12x zoom	Navitar		
Connecting tubes	VWR international	Clay Adam Intramedic PE190	
Blunt 18G needles	Small Parts (www.smallparts.com)		
Eccentric diaphragm micropump	Schwarzer Precision	SP 500 EC-LC4.5V DC	
Solenoid valves	Pneumadyne	S10MM-30-12-3	
Solenoid manifold	Pneumadyne	MSV10-1	
Function generator			
3-(trimethoxysilyl) propyl methacrylate	Sigma-Aldrich		
Polyethylene glycol diacrylate 3.4 kDa	Laysan Bio Inc.		
Polyethylene glycol 8 kDa	Sigma-Aldrich		
Irgacure 2959	Ciba Specialty Chemicals		
1-vinyl-2-pyrrolidinone	Sigma-Aldrich		
Standard cell culture reagents			