

Experimental and Data Analysis Workflow for Soft Matter Nanoindentation

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jove.com/video/63401

Materials

Name	Company	Catalog Number	Comments
12 mm coverslips	VWR	631-1577P	
35 mm cell treated culture dishes	Greiner CELLSTAR	627160	
Acrylamide	Sigma-Aldrich	A4058	
Acrylsilane	Alfa Aesar	L16400	
Ammonium Persulfate	Merk	7727-54-0	
Bisacrylamide	Merk	110-26-9	
Chiaro nanoindenter	Optics 11 Life		no catalogue number
Ethanol			general
Fetal bovine serum	Gibco	16140071	
High glucose DMEM	Gibco	11995065	
Isopropanol			general
Kimwipe	Kimberly Clark	21905-026	
Microscope glass slides	VWR	631-1550P	
MilliQ system	Merk Millipore	ZR0Q008WW	
OP1550 Interferometer	Optics11 Life		no catalogue number
Optics 11 Life probe (k = 0.02-0.005 N/m, R = 3-3.5 µm)	Optics 11 Life		no catalogue number
Optics 11 Life probe (k = 0.46-0.5 N/m, R = 50-55 µm)	Optics 11 Life		no catalogue number
Penicillin/Streptomycin	Gibco	15140122	
RainX rain repellent	RainX	26012	
Standard petri dishes (90 mm)	Thermo Scientific	101RTIRR	
Tetramethylethylenediamine	Sigma-Aldrich	110-18-9	
Vacuum dessicator	Thermo Scientific	531-0250	
Software			
Data acquisition software (v 3.4.1)	Optics 11 Life		

GitHub Desktop (Optional)	Microsoft		
Python 3	Python Software Foundation		
Visual Studio Code (Optional)	Microsoft		