

Materials List for:

# Simple Polyacrylamide-based Multiwell Stiffness Assay for the Study of Stiffness-dependent Cell Responses

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## Materials

Name	Company	Catalog Number	Comments
<b>Reagents</b>			
40% Acrylamide	Bio-Rad	161-0140	
2% Bis-acrylamide	Bio-Rad	161-0142	
Ammonium Persulfate	Bio-Rad	161-07000	
TEMED	Sigma Aldrich	T9281	
Sulfo-SANPAH	Thermo Scientific	22589	
Collagen Type 1, from Rat tail, 3.68 mg/ml	BD Biosciences	354236	
Dimethyl sulfoxide (DMSO)	Fisher Scientific	BP231-100	
Hydrophobic solution — Repel Silane	GE Healthcare Bio-Sciences	17-1332-01	
PBS (1x), pH 7.4	HyClone	SH30256.01	
Polydimethylsiloxane (PDMS) [Slygard 182 Elastomer Kit]	Elsworth Adhesives	3097358-1004	
Tyrosin/EDTA (10x)	Sigma Aldrich	44174	
RPMI-1640 Medium (1x)	HyClone	SH30027-02	
Fetal Bovine Serum	HyClone	SH30073-03	
Penicillin Streptomycin	MP Biomedicals	1670046	
Detergent: Triton-X	Sigma Aldrich	T8787	
Formaldehyde 37% Solution	Sigma Aldrich	F1635	
Bovine Serum Albumin (BSA)	Sigma Aldrich	A2153	
BSA-based cell adhesion blocking kit — ECM Cell Adhesion Array Kit	Chemicon International	ECM540	
<b>Disposable lab equipment</b>			
flexible plastic support — GelBond PAG Film for Polyacrylamide Gels	GE Healthcare Bio-Sciences	309819	
Glass Plates	Slumpys	GBS4100SFSL	
50 ml conical tubes	Fisher Scientific	3181345107	
15 ml conicals tubes	FALCON	352097	
Micro centrifuge tubes	Fisher Scientific	2 ml: 02681258	
96-well plate (flat bottom)	Fisher Scientific	12565501	
Disposable Pipettes (1 ml, 2 ml, 5 ml, 10 ml, 25 ml, 50 ml)	Fisher Scientific	1 ml: 13-678-11B, 2 ml: 05214038, 5 ml (FALCON): 357529, 10 ml: 13-678-11E, 25 ml: 13-678-11, 50 ml: 13-678-11F	
Glass Transfer Pipettes	Fisher Scientific	5 3/4": 1367820A, 9":136786B	
Pipette Tips (1-200 µl, 101-1000 µl)	Fisher Scientific	2707509	

Plastic Standard Disposable Transfer Pipettes	Fisher Scientific	13-711-9D	
Parafilm	PARAFILM	PM992	
Powder Free Examination Gloves	Quest	92897	
Silicone spacers — Silicone sheet, 0.5 mm thick/13 cm x 18 cm	Grace Bio-Labs	JTR-S-0.5	
<b>Large/non-disposable lab equipment</b>			
Light and Flourescent Microscope (Axiovert 200M)	Zeiss	3820005619	
Microscope Software	Zeiss	AxioVision Rel. 4.8.2	
UV oven	UVITRON	UV1080	
Vacuum chamber/degasser	BelArt	999320237	
Vacuum pump for degasser	KNF Lab	5097482	
Tissue Culture Hood	NUAIRE	NU-425-600	
Chemical Fume Hood	KEWAUNEE	99151	
Inverted Microscope (Axiovert 25)	Zeiss	663526	
Incubator	NUAIRE	NU-8500	
Pipette Aid	Drummond Scientific Co.	P-76864	
Hemacytometer	Bright-Line	383684	