

Materials List for:

Preparation of Hydroxy-PAAm Hydrogels for Decoupling the Effects of Mechanotransduction Cues

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Materials

Name	Company	Catalog Number	Comments
UV/Ozone Photoreactor	Ultra-Violet Products	Model PR-100	
Rocking plate	IKAcWerke	Model KS 130 Basic	
Vortexer	Scientific Industries	Model Vortex Genie2	
Vacuum degassing chamber	Applied Vacuum Engineering	DP- 8-KIT	
Parafilm	Sigma-Aldrich	P7793-1EA	
Stainless steel forceps with fine tip	Sigma-Aldrich	Z225304-1EA	
Dressing tissue forceps	Sigma-Aldrich	F4392-1EA	
Petri dishes in polystyrene	Sigma-Aldrich	P5731-500EA	
Aluminium foil, thickness 0.5 mm	Sigma-Aldrich	266574-3.4G	
Isopore membrane filter (0.2 µm pore size)	Millipore	GTTP Filter code	
Round glass coverslip (22 mm diameter)	Neuvitro	GG-22	
Round glass coverslip (25 mm diameter)	Neuvitro	GG-25	
Variable volume micropipette	Sigma-Aldrich	Z114820	
Protein microcentrifuge tubes	Sigma-Aldrich	Z666505-100EA	
Scalpel handles	Sigma-Aldrich	S2896-1EA	
Scalpel blades	Sigma-Aldrich	S2771-100EA	
Cell culture flasks (75 cm ²)	Sigma-Aldrich	CLS430641	
Ultrasonic bath tray, solid (stainless steel)	Sigma-Aldrich	Z613983-1EA	
Polydimethylsiloxane	Dow Corning	Sylgard 184 silicone elastomer kit	
Acrylamide (powder)	Sigma-Aldrich	A3553	
N,N'-Methylenebis(acrylamide)	Sigma-Aldrich	146072	
N-Hydroxyethylacrylamide	Sigma-Aldrich	697931	
N,N,N',N'-Tetramethylethylenediamine	Sigma-Aldrich	T9281	
Amonium PerSulfate (APS)	Sigma-Aldrich	A3678	
3-(Trimetoxysilyl)propyle acrylate	Sigma-Aldrich	1805	
Human Plasma Fibronectin	Millipore	FC010	
Laminin from EHS	Sigma-Aldrich	L2020	
Sodium hydroxyde	Sigma-Aldrich	221465-25G	
Double-distilled water (ddH ₂ O)			
Endothelial cell growth medium	Cells Applications	211K-500	

Human Umbilical Vein Endothelial Cells (HUVEC)	Invitrogen	C-003-5C	
Accutase	PAA laboratories	L11-007	
HEPES buffer solution 1 M in H ₂ O	Sigma-Aldrich	83264-500ML-F	
Antibiotics-antimycotics	PAA laboratories	P11-002	
Phosphate Buffer Saline solution	PAA laboratories	H15-002	
Alexa Fluor 488 Phalloidin	Molecular Probes	A12379	
Anti-vinculin antibody produced in mouse	Sigma-Aldrich	V9131	
Goat anti-mouse antibody-tetramethylrhodamine	Molecular Probes	T-2762	
Anti-Fibronectin (rabbit)	Sigma-Aldrich	F3648	
Streptavidin	Sigma-Aldrich	41469	
Anti-Laminin antibody (rabbit)	Sigma-Aldrich	L9393	
Anti-rabbit IgG-FITC	Sigma-Aldrich	F7512	
Trypsin-EDTA solution	Sigma-Aldrich	T3924-100ML	
Absolute ethanol	Sigma-Aldrich	459844-2.5L	