

Materials List for

Generating a Fractal Microstructure of Laminin-111 to Signal to Cells

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Materials

Name	Company	Catalog Number	Comments
10% formalin	Sigma Aldrich	HT501128	
Anti-Laminin primary antibody	Sigma Aldrich	L9393	
Anti-Rabbit Alexafluor 488 secondary antibody	Thermo	A32731	
Bovine Serum Albumin	Sigma Aldrich	A9418	
CaCl ₂	Sigma Aldrich	C4901 or similar	
Cell Culture Incubator	Thermo	Heracell 150 or similar	
Centrifuge for microcentrifuge tubes	Eppendorf	5418 or similar	
Confocal Microscope	Zeiss	LSM 710 or equivalent	
Coverslips	Thermo	25CIR-1 or similar	
DMEM-F12, Liquid, High Glucose, +HEPES, L-glutamine, +Phenol red	Thermo	11330107	
EGF (Epidermal Growth Factor)	Sigma Aldrich	11376454001	
Fluorescently Labeled Laminin	Cytoskeleton Inc	LMN02	
Gentamicin	VWR	VWRV0304-10G	
Glutaraldehyde	Sigma Aldrich	G5882	
HCl	Sigma Aldrich	320331 or similar	
Hydrocortisone	Sigma-Aldrich	H0888-5G	
Insulin	Sigma Aldrich	16634-50mg	
MepG Dystroglycan Knockout Cells	LBNL	N/A	
NaOH	Sigma Aldrich	S8045 or similar	
Normocin	Invivogen	ant-nr-1	
Osmium Tetroxide	Sigma Aldrich	75633	
Ovine Prolactin	Los Angeles Biomedical Research Institute	Ovine Pituitary Prolactin	
Phalloidin	Thermo	A22287	
Phosphate Buffered Saline	Thermo	10010023 or similar	
Purified Laminin-111	Sigma Aldrich	L2020-1MG	

Recombinant human Nidogen-1, carrier free	R&D systems	2570-ND-050	
Sodium Acetate	Sigma Aldrich	S2889 or similar	
Sodium Cacodylate	Sigma Aldrich	C0250	
Sterile filters	Millipore	SLGP033RS or similar	
Tris	Sigma Aldrich	252859 or similar	
Triton X-100	Sigma-Aldrich	X100	
Ultra-low protein binding tubes	VWR	76322-516, 76322-522 or similar	
Ultrapure water	Thermo	15230253 or similar	