

Materials List for

An Optimized O9-1/Hydrogel System for Studying Mechanical Signals in Neural Crest Cells

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Materials

Name	Company	Catalog Number	Comments
12 mm #1 Corning 0211 Glass Coverslip	Chemglass Life Sciences	CLS-1763-012	
2% Bis-Acrylamide	Sigma Aldrich	M1533	
24-well plate	Greiner Bio-one	662165	
25 mm #1 Corning 0211 Glass Coverslip	Chemglass Life Sciences	CLS-1763-025	
3-aminopropyl triethoxysilane (APTS)	Sigma Aldrich	A3648	
4-well cell culture plate	Thermo Scientific	179830	
4% Paraformaldehyde	Sigma Aldrich	J61899-AP	
40% Acrylamide	Sigma Aldrich	A4058	
50% glutaraldehyde	Sigma Aldrich	G7651	
6-well cell culture plate	Greiner Bio-one	657160	
AFM cantilever (spherical bead)	Novascan		
AFM software	Catalyst NanoScope		Model: 8.15 SR3R1
Alexa Fluor 488 Phalloidin	Thermo Fisher	A12379	
Ammonium Persulfate (APS)	Sigma Aldrich	248614	Powder
anti-AP-2 α Antibody	Santa Cruz	sc-12726	
anti-Vinculin antibody	Abcam	ab129002	
Atomic Force Microscopy (AFM) Bioscope Catalyst	Bruker Corporation		
Collagen type I (100mg)	Corning	354236	
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride)	Thermo Fisher	D1306	
Dichloromethylsilane (DCMS)	Sigma Aldrich	440272	
Donkey serum	Sigma Aldrich	D9663	
Dulbecco's Modified Eagle Medium (DMEM)	Corning	10-017-CV	

Fetal bovine serum (FBS)	Corning	35-010-CV	
Fluorescence microscope	Leica		Model DMI8
Fluoromount-G mounting medium	SouthernBiotech	0100-35	
HEPES	Sigma Aldrich	H3375	Powder
Horse serum	Corning	35-030-CI	
iScript Reverse Transcription Supermix	Bio-Rad	1708841	
Penicillin-Streptomycin antibiotic	Thermo Fisher	15140148	
RNeasy micro kit	Qiagen	74004	
Sterile 1x PBS	Hyclone	SH30256.02	
Sterile deionized water	Hardy Diagnostics	U284	
sulfo-SANPAH	Thermo Fisher	22589	
SYBR green	Applied Biosystems	4472908	
TEMED	Sigma Aldrich	T9281	
Triton X-100	Sigma Aldrich	X100	
Tween 20	Sigma Aldrich	P9416	