

Materials List for:

Preparation of Tunable Extracellular Matrix Microenvironments to Evaluate Schwann Cell Phenotype Specification

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Materials

Name	Company	Catalog Number	Comments
Albumin from Bovine Serum (BSA), Texas Red conjugate	Thermo Fisher Scientific	A23017	BSA staining to show micropatterns
Anti-mouse IgG, HRP-linked Antibody	Cell Signaling Technology	7076S	Antibody used for western blot analysis
Anti-rabbit IgG, HRP-linked Antibody	Cell Signaling Technology	7074S	Antibody used for western blot analysis
BrdU	Thermo Fisher Scientific	B23151	Reagent used to measure cell proliferation
BrdU primary antibody conjugated with Alexa Fluor 488	Thermo Fisher Scientific	B35130	Used to visualize BrdU in cell proliferation assays
Collagen I	Thermo Fisher Scientific	A10483-01	Protein used to coat coverslips
Compression force test machine	TestResources		Instrument to quantify mechanical properties of polymers
Dulbecco's Modified Eagle Medium	Thermo Fisher Scientific	11965092	Cell culture medium
Fetal Bovine Serum	Thermo Fisher Scientific	16000044	Cell culture medium supplemental
Fibronectin	Thermo Fisher Scientific	33010-018	Protein used to coat coverslips
Fluorescence microscope	Nikon	Eclipse Ti2	Fluorescence microscope
Halt Protease and Phosphatase Inhibitor Cocktail (100X)	Thermo Fisher Scientific	78440	Protease and Phosphatase Inhibitor
Laminin	Thermo Fisher Scientific	23017015	Protein used to coat coverslips
Mounting medium with DAPI	Thermo Fisher Scientific	P36971	Coverslip mountant and nuclei staining
Mouse c-Jun primary antibody	Thermo Fisher Scientific	711202	Primary antibody to visualize c-Jun protein
Mouse β -Actin primary antibody	Cell Signaling Technology	3700S	Loading control for western blot experiments
Penicillin-Streptomycin	Thermo Fisher Scientific	15140122	Cell culture medium supplemental
Photoresist SU 2010	KAYAKU	SU8-2010	Photoresist
Pluronic F-127	Sigma Aldrich	P-2443	Block non-specific protein binding
Rabbit c-Jun primary antibody	Cell Signaling Technology	9165S	Primary antibody for visualization of c-Jun protein
Rabbit myelin basic protein primary antibody	Abcam	ab40390	Primary antibody for visualization of MBP
Rabbit p75NTR primary antibody	Cell Signaling Technology	8238S	Primary antibody for visualization of p75NTR
Rhodamine phalloidin	Thermo Fisher Scientific	R415	Visualization of cell cytoskeleton
RIPA buffer	Abcam	ab156034	Cell lysis buffer

RT4-D6P2T Schwann cell line	ATCC	CRL-2768	Cell line used in experiments
SYLGARD 184 PDMS base and curing agent	Sigma Aldrich	761036	Tunable polymer used to coat coverslips
Trypsin	Thermo Fisher Scientific	15090-046	Cell dissociation reagent
UV-Ozone cleaner	Novascan		Increase hydrophobicity of PDMS
Versene (1x)	Thermo Fisher Scientific	15040066	Cell dissociation reagent