

Materials List for:

Characterization of the Interaction of Primary Cells from the Rat Inner Ear with Polymer Films As Coatings for Cochlear Implant Electrode Surface

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Materials

Name	Company	Catalog Number	Comments
Animals			
Sprague-Dawley rats	Charles River, Sulzfeld, Germany		Inbreeding strain, ordered and provided by the Laboratory Animal Sciences, Medical School Hannover, Germany
Laboratory equipment			
Transmission light microscope Leica MZ-6	Leica, Germany		Preparation of the cochlear structures
Inverse microscope: Keyence BZ 9000 Biorevo	Keyence International, Mechelen, Belgium		Fluorescence microscopy
SEM 505	Philips, NL		Scanning electron microscopy
CPD 030	Balzers Union, Balzers FL		Critical point drying
Polaron E5400	Watford Hertfordshire, England		High resolution sputter coater
Laboratory tools			
Standard Pattern Forceps, curved/12 cm	Fine Science Tools, Heidelberg, Germany	11001-12	Dissection of the spiral ganglia from postnatal rats
Adson-Brown Forceps, Shark Teeth	Fine Science Tools, Heidelberg, Germany	11627-12	Dissection of the spiral ganglia from postnatal rats
Forceps Dumont #3c, straight/11 cm	Fine Science Tools, Heidelberg, Germany	11231-20	Dissection of the spiral ganglia from postnatal rats
Forceps Dumont Medical #5, straight	Fine Science Tools, Heidelberg, Germany	11255-20	Dissection of the spiral ganglia from postnatal rats
Scissor, pointed-pointed, straight/11 cm	Wirtschaftsgenossenschaft deutscher Tierärzte (WDT) eG, Garbsen, Germany	27040	Dissection of the spiral ganglia from postnatal rats
Plastic and glass material			
48well-microtiter plate	Nunc/thermo Scientific	150787	
Coverslips Menzel-Gläser 24 x 60 mm	VWR International GmbH, Darmstadt, Germany	631-0973	
Buffers, enzymes, proteins, chemicals, cell culture supplements			
Acetone	Mallinckrodt Baker R.V., Griesheim, Germany	9002-02	
Argon	Linde Gas, Pullach, Germany	Argon 5.0	
Bovine serum albumine	Sigma-Aldrich, St.Louis, USA	A3294	Lyophilized powder, initial fraction by heat shock, fraction V.

DNase I	Roche, Basel, Switzerland	11284932001	
Fetal bovine serum (FBS)	Biochrom, Berlin, Germany	S0415	
Glucose 40 % concentrate			Our lab is receiving glucose by the hospital pharmacy.
Glutardialdehyde	Polysciences, Warrington, PA, USA	01909-10	
Hank's balanced salt solution (HBSS)	Invitrogen/Fisher Scientific, Waltham, MA, USA	14170-070	Ca2+/ Mg2+-free
HEPES	Invitrogen/Fisher Scientific, Waltham, MA, USA	15630-056	1 M
Insulin from bovine pancreas	Sigma-Aldrich, St.Louis, USA	I0516	
Leit-C	Plano, Wetzlar, Germany	G3300	fluid carbon in xylol
N2-Supplement	Invitrogen/Fisher Scientific, Waltham, MA, USA	17502-048	100x
Natural Mouse Laminin	Invitrogen/Fisher Scientific, Waltham, MA, USA	23017-015	
Panserin 401 neuro medium	PAN Biotech, Aidenbach, Germany	P04-710401	Neuro medium for cultivation neuronal cells
Phosphate buffered saline (PBS) tablets	Invitrogen/Fisher Scientific, Waltham, MA, USA	18912-014	Ca2+/ Mg2+-free
Penicillin G Sodium salt	Sigma-Aldrich, St.Louis, USA	PENNA-10MU	
Poly-DL-Ornithin hydrobromid	Sigma-Aldrich, St.Louis, USA	P8638	
Prolong anti-fade Gold with DAPI	Invitrogen/Fisher Scientific, Waltham, MA, USA	P36941	DAPI containing mounting gel
Sodium cacodylate	Sigma-Aldrich, St.Louis, USA	C4945-10G	
Triton-X 100	Sigma-Aldrich, St.Louis, USA	T8787	
Trypan Blue	Sigma-Aldrich, St.Louis, USA	T 8154	
Trypsin	Biochrom, Berlin, Germany	L2123	1:250 in PBS, Ca2+/ Mg2+-free
Primary antibodies			
Neurofilament 200kD, mouse, monoclonal	Novocastra, Newcastle upon Tyne, UK	NCL-NF200	
p75, rabbit, polyclonal	Abcam, Cambridge, UK	38335	
Vimentin clone V9, mouse, monoclonal	Dako GmbH, Jena, Germany	M0725	
Vimentin, chicken, polyclonal	Abcam, Cambridge, UK	ab24525	
Secondary antibodies			
Goat anti-chicken, conjugated with Texas Red	Santa Cruz Biotech., Dallas, TX, USA	sc2994	
Goat anti-mouse, conjugated with New dylight 488	Jackson-ImmunoResearch Laboratories Inc., West Grove, PA, USA	115-485-008	
Goat anti-rabbit, conjugated with Alexa Fluor 594	Jackson-ImmunoResearch Laboratories Inc., West Grove, PA, USA	111-515-144	