

Materials List for

# A Model of Epileptogenesis in Rhinal Cortex-Hippocampus Organotypic Slice Cultures

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## Materials

Name	Company	Catalog Number	Comments
50 mL Centrifuge Tube, Conical Bottom	Corning	430829	
70% Ethanol	Manuel Vieira, Lda	UN1170	
Amplifier	Axon Instruments	Axoclamp 900A	
Amplifier	Axon Instruments	Digidata 1440A	
Anti-C3d (goat)	R&D Systems	AF2655	Dilute at a ratio 1:1000
Anti-CD68 (mouse)	Abcam	ab31630-125ug	Dilute at a ratio 1:250
Anti-GFAP (mouse)	Millipore SAS	MAB360	Dilute at a ratio 1:500
Anti-Iba1 (rabbit)	Abcam	ab108539	Dilute at a ratio 1:600
Anti-NeuN (rabbit)	Werfen	16712943S	Dilute at a ratio 1:500
Artificial cerebrospinal fluid (aCSF)			Homemade
B-27™ Supplement (50X), serum free	Thermo Fisher Scientific	17504-044	
Blades for scalpel handle	Fine Science Tools	10011-00	
Bovine Serum Albumin (BSA)	NZYTEch	MB04602	5% BSA is used to dilute the primary antibodies. Add 0.5g BSA in 10 mL PBS.
Brain/Tissue Slice Chamber System	Warner Instruments		
Calcium chloride dihydrate	Merck Millipore	1.02382.0500	
Cell culture inserts, 30 mm, hydrophilic PTFE	Millipore SAS	PICM03050	
Cold light source	SCHOTT	KL 300 LED	
Confocal laser microscope	Zeiss	LSM 710	
Conventional incubator	Thermo Scientific Heraeus	BB15, Function Line	Set to 37 °C and 5% CO <sub>2</sub>
D(+)-Glucose monohydrate	Merck Millipore	1.08342.1000	
D-(+)-Glucose solution, 45% in water	Sigma	G8769	
di-Sodium hydrogen phosphate dihydrate	Merck Millipore	1.06580.1000	

Dissecting microscope/magnifier	MEIJI TECHNO CO. LTD	122285	
Donkey anti-goat IgG (H+L) coupled to Alexa Fluor 568	Invitrogen	A11057	Dilute at a ratio 1:200
Donkey anti-mouse IgG (H+L) coupled to Alexa Fluor 488	Invitrogen	A21202	Dilute at a ratio 1:200
Donkey anti-mouse IgG (H+L) coupled to Alexa Fluor 568	Invitrogen	A10037	Dilute at a ratio 1:200
Donkey anti-rabbit IgG (H+L) coupled to Alexa Fluor 488	Invitrogen	A21206	Dilute at a ratio 1:500
Donkey anti-rabbit IgG (H+L) coupled to Alexa Fluor 568	Invitrogen	A10042	Dilute at a ratio 1:500
Dumont #5 Fine Forceps Biologie Inox	Fine Science Tools	11254-20	
Dumont #5 Forceps Standard Inox	Fine Science Tools	11251-20	
Dumont #7 Forceps Standard Dumoxel	Fine Science Tools	11271-30	
Dumont Medical #7S Forceps Short Curve Inox	Fine Science Tools	11273-22	
Gentamycin stock solution, 50 mg/mL	Thermo Fisher Scientific	15750-037	
Gey's Balanced Salt Solution (GBSS)	Biological Industries	01-919-1A	
Glass Electrodes	Science Products	GB150F-10	Round tips homemade
Glass Pasteur pipettes, 230 mm	VWR International	612-1702	
Hank's Balanced Salt Solution (HBSS)	Thermo Fisher Scientific	24020-091	
Hoechst 33342	Invitrogen	H1399	Stock solution at 2 mg/mL in PBS
Horse Serum, Heat Inactivated (HS)	Thermo Fisher Scientific	26050-088	
Hydrochloric acid	Merck Millipore	1.09057.1000	
Hydrophobic Pen	Dako	S200230-2	
INCU-Line IL10	VWR	390-0384	
Interface chamber	Warner Instruments	BSC-HT Haas Top	
Iris Spatula Curved	Fine Science Tools	10092-12	
Labculture Class II Biological Safety Cabinet	HERASafe	HS 12	
Lens Cleaning Paper	TIFFEN		
L-Glutamine solution 200 mM (Q)	Thermo Fisher Scientific	25030-024	
Magnesium sulfate heptahydrate	Merck Millipore	1.05886.0500	
Micro tube 0.5 mL, PP	SARSTEDT	72,699	
Micro tube 1.5 mL, PP	SARSTEDT	72.690.001	
Micro tube 2.0 mL, PP	SARSTEDT	72.691	
Micromanipulators	Sutter Instrument	MP-285	
Miroscope Cover Glasses, 24 mm x 60 mm	Mariefeld	102242	
Nail polish	Cliché		
Neurobasal-A Medium (NBA)	Thermo Fisher Scientific	10888-022	
Opti-MEM® I Reduced-Serum Medium	Thermo Fisher Scientific	31985-047	
Paraformaldehyde, powder	VWR Chemicals	2,87,94,295	
Peristaltic pump	Gilson	M312	
Phosphate saline buffer (PBS)			Homemade. PBS with 0.5% Tween-20 (PBS-T) is used to wash slices during the immunohistochemistry assay.

Phosphate standard solutions, PO <sub>4</sub> <sup>3-</sup> in water	BDH ARISTAR	452232C	
Pipette set	Gilson	P2, P10, P20, P100, P200, P1000	
Platinum 5 blades	Gillette		
Potassium chloride	Sigma-Aldrich	P5405-250g	
Propidium iodide (PI)	Sigma-Aldrich	P4170-25MG	Stock solution at 1 mg/mL in water.
Qualitative Filter Paper, Cellulose, Grade 1, 55 mm	Whatman	1001-055	Medium retention 11µm
Qualitative Filter Paper, Cellulose, Grade 1, 90 mm	Whatman	1001-090	Medium retention 11µm
Scalpel handle	Fine Science Tools	91003-12	
Slip Tip Insulin Syringe without Needle 1 mL	SOL-M	161000	
Sodium chloride	VWR Chemicals	27800.360	
Sodium dihydrogen phosphate monohydrate	Merck Millipore	1.06346.1000	
Sodium hydrogen carbonate	Merck Millipore	1.06329.1000	
Sodium Hydroxide <sup>®</sup>	Merck Millipore	535C549998	
Stimulator	Astro Med Inc GRASS Product Group	S48 Stimulator	
Student Scissors Straight SharpSharp 12cm	Fine Science Tools	91402-12	
SuperFrost Plus™ Adhesion slides	Thermo Fisher Scientific	J1800AMNZ	
TC-Treated Sterile 60 x 15mm Tissue Culture Dish	Corning	CORN430166	
TC-Treated Sterile 6-Wells Plates	Corning	CORN3516	
Temperature controller	MEDICAL SYSTEMS CORP.	TC-102	
Tissue Chopper	The Mickle Laboratory Engineering CO. LTD.	MTC/2	Set to 350 µm
Triton X-100	BDH	14630	
Tween-20	Sigma	P2287	