

Materials List for

Ex Vivo Myelination and Remyelination in Cerebellar Slice Cultures as a Quantitative Model for Developmental and Disease-Relevant Manipulations

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jove.com/video/61044

Materials

Name	Company	Catalog Number	Comments
#5/45 Forceps	Fine Science Tools	11251-35	Dissection tools
32% Paraformaldehyde	Electron Microscopy Sciences	50-980-495	Fixative for staining
45% glucose solution	Sigma	G8769	Slice culture media component
6-well tissue culture plates	Corning	3516	Plates for cultures
Alexa Fluor Goat anti-chicken 647	Thermo Fisher Scientific	A21449	Secondary staining antibody
Alexa Fluor Goat anti-mouse 647	Thermo Fisher Scientific	A21236	Secondary staining antibody
Alexa Fluor Goat anti-rabbit 555	Thermo Fisher Scientific	A11006	Secondary staining antibody
Alexa Fluor Goat anti-rat 488	Thermo Fisher Scientific	A21428	Secondary staining antibody
Blades, Double-edge, PTFE coated Stainless steel	Ted Pella	121-6	Chopping blades
Bovine Serum Albumin (BSA)	Sigma	A9418	Blocking solution component
Chicken anti-NFH antibody	Encor Biotech	CPCA-NF-H	Staining antibody
Confocal Microscope	Zeiss	LSM780	Confocal for imaging
Corning 250 mL vacuum filter/ storage bottle system, 0.22 µm pore	Corning	431096	For media preparation
Earl's balanced salt solution	Sigma	E2888	Slice culture media component
Feather surgical blade	Feather	2976#11	Dissection tools
Fungizone	Thermo Fisher Scientific	15290-18	Dissection media component
GlutaMAX supplement	Thermo Fisher Scientific	35050-061	Slice culture media component
Heat-inactivated horse serum	Thermo Fisher Scientific	26050-88	Slice culture media component
Lysolecithin	Sigma	L4129	
Lysophosphatidylcholine from egg yolk	Sigma	L4129	To induce demyelination
Mcllwain Tissue Chopper	Ted Pella	10180	Tissue chopper
MEM, Hepes, no glutamine	Thermo Fisher Scientific	12360-038	Slice culture media component
MEM, Hepes, with Earle's salts	Sigma	M7278	Dissection media component

Metal spatula	Fisher Scientific	470149-442	Dissection tools - bend flat end at angle for use
Millicell Culture Plate Insert 30mm Organotypic PTFE	Fisher	PICM0RG50	Culture insert
Mouse anti-CC1 antibody	Millipore	OP80-100UG	Staining antibody
Noyes spring scissors	Fine Science Tools	15012-12	Dissection tools
PBS pH 7.4	Gibco	10010023	For dilution of fixative
Penicillin-streptomycin 10,000U/mL	Thermo Fisher Scientific	15140-122	Slice culture media component
Rabbit anti-Caspr antibody	Abcam	ab34151	Staining antibody
Rabbit anti-Olig2 antibody	Millipore	AB9610	Staining antibody
Rat anti-MBP antibody	Serotec	MCA409S	Staining antibody
Scalpel handle #3	Fine Science Tools	10003-12	Dissection tools
Silicone rubber foam sheet	MSC Industrial Direct Co	31939176	Cutting base
Stereo Microscope	Olympus Life Sciences	SZ61	Microscope for dissection
Student surgical scissors	Fine Science Tools	91401-12	Dissection tools