

Materials List for:

Selective Tracing of Auditory Fibers in the Avian Embryonic Vestibulocochlear Nerve

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Materials

Name	Company	Catalog Number	Comments
Polystyrene Weigh Dish	Fisher Scientific	02-202-101	
Petri Dish, 35 X 10 mm	Fisher Scientific	50820644	Use to make silicone dissection dish
Sylgard Silicone Elastomer Kit	World Precision Instruments	SYLG184	Coat Petri to make dissection dish
Dissection Pins	Various		Holds embryo in place during dissection
NaCL	Various		part of aCSF recipe
KCl	Various		part of aCSF recipe
KH ₂ PO ₄	Various		part of aCSF recipe
NaHCO ₃	Various		part of aCSF recipe
Glucose	Various		part of aCSF recipe
CaCl ₂	Various		part of aCSF recipe
MgSO ₄	Various		part of aCSF recipe
Container for aCSF. Suggest translucent wide-mouth Nalgene jar, 500 ml (16 oz) with lid.	CPLabSafety	QP-PLC-03717	Drill hole opening in top of lid for glass bubbling stem to penetrate liquid
Empty 5 ml glass vial or comparable transparent vial	American Pharmaceutical Partners, Inc	6332300105	Use during aCSF incubation to keep samples separate from each other and from the bubbling stream
Tank of carbogen (95%O ₂ / 5%CO ₂) connected by tubing to bubbler	Various		Attach by tubing to glass stem bubbler for infusion into aCSF
Glass stem bubbler	Various		To infuse carbogen into aCSF
Curved-tip forceps	World Precision Instruments	501008	To remove embryo head from egg
Two fine-tip forceps	World Precision Instruments	501985	For micro-dissection
50 ml Beaker	various		
Rhodamine Dextran Amine (RDA)	Invitrogen	various	Fluorescent axon tracer
Triton X-100	ICN Biomedicals		
Phosphate Buffered Saline, (1X PBS)	Various		Standard lab reagent
Thin Wall Glass Capillaries, 1.2 OD, .9 ID 4" (100 mm) length	World Precision Instruments	TW120F-4	Load with RDA. Each capillary makes two glass micropipettes
Needle / Pipette puller	David Kopf Instruments	Model 720	Settings used: Heat 16.4, Solenoid 2.2
Picospritzer	Parker Instrumentation	various	Attach by fine tubing to glass micropipette
Micromanipulator	Narishige	various	

Dissection microscope with fluorescence	Various		
4% Paraformaldehyde	Various		Standard lab reagent
anti-Neurofilament antibody, optional	Millipore	AB1991	Follow histological protocol recommended by manufacturer
Cryostat and associated materials for sectioning	Leica	various	
Epifluorescent microscope for imaging	Zeiss, various		