

Materials List for:

Isolation and Culture of Dissociated Sensory Neurons From Chick Embryos

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Materials

Name	Company	Catalog Number	Comments
Sterile small culture dishes (35 mm)	Corning	430165	
Sterile large culture dishes (100 mm)	Falcon	353003	
Sterile large Petri dishes (100 mm)	VWR	89000-302	
Glass Petri dish (100 mm)	VWR	D108962	
Fine forceps	Fine Science Tools	11251-10	
Standard forceps	Fine Science Tools	1100-12	
Coverslips (22 x 22 mm)	Fisher	12 518 105K	0.13-0.17 mm thickness is optimal for microscopy
Porcelain coverslip holder	Thomas scientific	8542E40	
Fetal Bovine serum	Gibco	17502-048	use 50 ml aliquots per 500 ml of Ham's F12 media
HCl	VWR	VW3204-1	use at 2 M, can be used twice before discarding
NaCl	Sigma	S9888	use 5 M NaCl solution for laminin-1 stock solution
Laminin-1	Invitrogen	23017-015	Add 72 µl of sterile 5 M NaCl and aliquot into 50 µl
15 ml Conical tube	cell treat	229411	
PBS CMF 10x	Gibco	14200	used at 1x, dilute with sterile Millipore filtered water
PBS 10x	Gibco	14080	used at 1x, dilute with sterile Millipore filtered water
Ham's F12	Lonza	12-615F	
Fetal Bovine Serum Albumin (BSA)	Gibco	10438	use in F12HS20 at 10%
HEPES	Sigma	H3375	make sterile 1 M solution in distilled water, dilute in F12 media to obtain final concentration of 10 mM
Penicillin/streptomycin	Sigma	P0781	use 5 ml in 500 ml of F12 media
NT3	Millipore	GF031	Add 1 ml of sterile Millipore water, aliquot under sterile conditions, store at -20 °C, use at final concentration of 10 ng/ml in F12H media, keep in -20 °C non-defrosting freezer
NGF	RnD systems	256-GF	Add 1 ml of sterile 1x PBS with 0.1% BSA, aliquot under sterile conditions, store at -20 °C, used at final concentration of 10 ng/ml in F12H media

L-Glutamine	Sigma	G7513	aliquot under sterile conditions, store at -20 °C, use at final concentration of 200 mM in F12H media
Trypsin	Sigma	T4049	aliquot under sterile conditions, store at -20 °C
Bovine Serum Albumin (BSA)	Gibco	15260	
Other items needed: general dissection instruments, including glass Pasteur pipettes, fertile white leghorn chicken eggs, check egg incubator (humidified, 37 °C), cell incubation chamber (humidified, 37 °C), laminar flow hood, binocular stereovision dissecting scope			
Immunocytochemistry Reagents Table			
Sucrose	Sigma	S9378	used in fixative solution (4% paraformaldehyde, 30% sucrose, 2x PBS)
Triton-X 100	Sigma	T-8787	
Paraformaldehyde	Sigma	P6148	used in fixative solution (4% paraformaldehyde, 30% sucrose, 2x PBS)
Fluoromount G	Southern Biotech	0100-01	
Normal goat serum	Life technologies	PCN500	
Microscope slides	VWR	16004-430	
Primary Antibody Table			
Antibody against NCAM	Millipore	AB5032	polyclonal
Antibody against activated β 1 integrin	Millipore	MAB19294	monoclonal
Secondary Antibody Table			
Goat anti-mouse IgG Alexa 488	Life technologies	A11001	
Goat anti-rabbit IgG Alexa 548	Life technologies	A11036	