Materials List for:

Dissection and Culture of Chick Statoacoustic Ganglion and Spinal Cord Explants in Collagen Gels for Neurite Outgrowth Assays

Kristen N. Fantetti, Donna M. Fekete
Department of Biological Sciences, Purdue University

Correspondence to: Donna M. Fekete at dfekete@purdue.edu

URL: http://www.jove.com/video/3600/

Materials

Name	Company	Catalog Number	Comments
Dissection microscope			We use a Leica M80 stereomicroscope with brightfield base illumination
Slide warmer	C.S. & E.		Collagen polymerization
Chicken egg incubator			
37Â°C/5% CO_2 humidified cell culture incubator			
SylgardÂ© coated petri dish			
24-well cell culture plate	Corning	3526	
#5 Dumont forceps	Fine Science Tools	11252-30	
#55 Dumont forceps	Fine Science Tools	11295-51	
Stainless steel dissecting pins	Fine Science Tools	26002-10	Embryo pinning, fine dissection
Moria perforated spoon	Fine Science Tools	10370-17	Embryo harvest/transfer
200 Âl wide mouth pipet tips	Dot Scientific, Inc.	118-96R	Explant transfer
E4 and E6 chicken eggs			
Chick Ringer's solution			Embryo harvest
HBSS	Sigma-Aldrich	H8264	SAG dissection
L15 medium	Sigma-Aldrich	L5520	Spinal cord dissection medium
Fetal calf serum	Atlanta Biologicals	S11150	Spinal cord dissection medium
Vannas Scissors	World Precision Instruments, Inc.	501778	Spinal cord dissection
Rat-tail collagen Type I	BD Biosciences	354249	Explant culture
10X PBS (Sterile)			To neutralize collagen
1N NaOH (Sterile)			To neutralize collagen
Distilled water (Sterile)			To neutralize collagen
pH indicator papers (6.0-8.1)	Whatman, GE Healthcare	2629-990	To check collagen pH
15 ml conical tubes	Dot Scientific, Inc.	818-PG	
500 Âl wide mouth pipet tips	Dot Scientific, Inc.	119-R100	To pipet collagen
DMEM/F12 medium	Sigma-Aldrich	D8437	Explant culture medium
ITS+1	Sigma-Aldrich	I2521	Medium supplement
Penicillin-Streptomycin	Invitrogen	15140-122	Medium supplement
CNTF (rat)	Sigma-Aldrich	C3835	Medium supplement
NT-3 (human)	Sigma-Aldrich	N1905	Medium supplement
Purified mouse Wnt5a	R&D Systems	645-WN-010	
Affi-gel Blue gel beads	Bio-Rad	153-7302	

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Paraformaldehyde	Sigma-Aldrich	P6148	Fixation
PBS			Rinses
Triton X-100	Sigma-Aldrich	T9284	Blocking solution
Sodium azide	Sigma-Aldrich	S8032	Blocking solution
Calf serum	Invitrogen	16170-078	Blocking solution
Mouse monoclonal IgG2b anti-Î² Tubulin 1+II antibody	Sigma-Aldrich	T8535	Labels cell bodies and neurites
Alexa fluor 488 goat anti -mouse $IgG2_b$ antibody	Invitrogen	A21141	Detects Î² Tubulin antibody
Teflon micro spatula	VWR international	57949-033	Release collagen gels from well

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