

Materials List for:

# Production and Isolation of Axons from Sensory Neurons for Biochemical Analysis Using Porous Filters

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## Materials

Name	Company	Catalog Number	Comments
CD-1 mouse, E13 timed pregnancy	Charles River		In house timed pregnancies can be done by mating mice and checking for vaginal plugs (Day E0)
Falcon cell culture inserts	Corning	353102	1 µm pore size, fits 6-well receiving plate
Falcon cell culture companion plates	Corning	353502	Receiving plates for inserts
Poly-D-lysine	Sigma-Aldrich	P6407	Used at 1 mg/ml in water. Can re-use once.
Laminin	Sigma-Aldrich	L2020	Used at 10 µg/ml in water. Take 100x stock from -80 °C and thaw O/N at 4 °C
PureCol bovine collagen solution	Advanced Biomatrix	5005-B	
Leibovitz's L-15 Medium	Invitrogen	11415-064	Can be replaced by DMEM
Neurobasal medium	Invitrogen	21103-049	
B-27 serum-free supplement	Invitrogen	17504-044	
5-Fluoro-2'-deoxyuridine (FDU)	Sigma-Aldrich	F0503	
NGF (2.5S, beta subunit)	Cedarlane	CLMCNET-001	
Anti-NGF antibody	Prepared in-house		As described in: Acheson, A. <i>et al.</i> Detection of brain-derived neurotrophic factor-like activity in fibroblasts and Schwann cells: inhibition by antibodies to NGF. <i>Neuron</i> . 7, 265-75, (1991).
Alomone Labs	AN-240	Commercial option	
Anti-tubulin antibody	Millipore	MAB5564	
Alexa Fluor 488 goat anti-mouse antibody	Invitrogen	A-11029	
<b>DRG culture medium</b>			
Neurobasal Medium 2% B27 Neurobasal Supplement 2 mM l-Glutamine 1% Penicillin-streptomycin 10 µM FDU 15 ng/ml NGF (bottom compartment only)			
<b>1x Laemmli sample buffer</b>			
2% SDS 50 mM DTT 60 mM Tris (pH 6.8) 5% Glycerol 0.01% (w/v) Bromophenol blue			