

Materials List for:

# Inducing Dendritic Growth in Cultured Sympathetic Neurons

Atefeh Ghogha<sup>1</sup>, Donald A. Bruun<sup>1</sup>, Pamela J. Lein<sup>1</sup>

<sup>1</sup>Department of Molecular Biosciences, University of California, Davis

Correspondence to: Pamela J. Lein at [pjlein@ucdavis.edu](mailto:pjlein@ucdavis.edu)

URL: <https://www.jove.com/video/3546>

DOI: [doi:10.3791/3546](https://doi.org/10.3791/3546)

## Materials

Name	Company	Catalog Number	Comments
Glass coverslips	Bellco Glass	1943-10012	12 mm Round Coverslip #1 Thickness, German glass
Bent tip pipets	Bellco Glass	1273-50003	
Poly-D-lysine	Sigma-Aldrich	P0899-100MG	Stock solution 1 mg/ml
Distilled water	GIBCO, by Life Technologies	15230	
Fine forceps Dumont no. 4 and 5	Fine Science Tools	11252-30 11241-30	
20-gauge needles	BD Biosciences	305176	
Leibovitz's L-15 medium	Invitrogen	11415	
Collagenase	Worthington Biochemical	4176	1 mg/ml
Dispase	Roche Group	04942078001	5 mg/ml
Hank's balanced salt solution( - Ca,-Mg)	Invitrogen	14185-052	
DMEM Low glucose	Invitrogen	11885	
L-Glutamine	Invitrogen	25030	20 mM
Insulin/Transferrin/ Selenium	Invitrogen	51500-056	100X
Fatty-acid free BSA	Calbiochem	126609	
NGF	Harlan Laboratories	5017	
Ham F-12 nutrient medium (F-12)	Invitrogen	11765	
Cytosine arabinoside	Sigma-Aldrich	C1768	
Matrigel	BD Biosciences	356234	Avoid repeated freeze-thaw cycles
BMP-7	R&D Systems	345-BP BMP7-07H	BMPs 4, 5 and 6 work equally as well as BMP-7 and are sometimes easier to obtain commercially
Paraformaldehyde	Sigma-Aldrich	P6148	
Triton X-100	Fisher Scientific	BP151-500	
Mouse anti-rat MAP2 antibody	Sternberger Monoclonals Inc.	SMI52	1/5000
Alexa Fluor 546 goat-anti-mouse	Invitrogen	A11003	1/10000
Mounting media	Molecular Probes, Life Technologies	P7481	