

Materials List for:

# Spiral Ganglion Neuron Explant Culture and Electrophysiology on Multi Electrode Arrays

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URL: <https://www.jove.com/video/54538>

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## Materials

Name	Company	Catalog Number	Comments
<b>culture medium</b>			
Neurobasal medium	Invitrogen	21103-049	24 ml (for 25 ml)
HEPES	Invitrogen	15630-080	250 µl (for 25 ml)
Glutamax	Invitrogen	35050-061	250 µl (for 25 ml)
B27	Invitrogen	17504-044	500 µl (for 25 ml)
FBS	GIBCO	10099-141	10% (for 25 ml)
BDNF	R&D Systems	248-BD-025/CF	final 5 ng/ml (for 25 ml)
<b>Name</b>			
<b>Company</b>			
<b>Catalog Number</b>			
<b>Comments</b>			
<b>extracellular solution (pH 7.4)</b>			
NaCl			145 mM
KCl			4 mM
MgCl <sub>2</sub>			1 mM
CaCl <sub>2</sub>			2 mM
HEPES			5 mM
Na-pyruvate			2 mM
Glucose			5 mM
<b>Name</b>			
<b>Company</b>			
<b>Catalog Number</b>			
<b>Comments</b>			
<b>blocking solution</b>			
PBS	Invitrogen	10010023	
BSA	Sigma	A4503-50G	2%
Triton X-100	Sigma	X100	0.01%
<b>Name</b>			
<b>Company</b>			
<b>Catalog Number</b>			
<b>Comments</b>			
<b>Immunostaining solutions</b>			
TuJ	R&D Systems	MAB1195	dil 1:200
DAPI	Sigma	D9542	
Paraformaldehyde	Sigma	158127	4%
Fluoreshield	Sigma	F6057	
<b>Name</b>			
<b>Company</b>			
<b>Catalog Number</b>			
<b>Comments</b>			
<b>plastic/tools</b>			
Petri dish 35 mm	Huberlab	7.627 102	
Petri dish 94 mm	Huberlab	7.633 180	

Dumont #5 tweezer	WPI	14098	
Dumont #55 tweezer	WPI	14099	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Materials</b>			
Enzymatic solution: Terg-a-Zyme	Sigma	Z273287-11KG	
Extracellular Matrix (ECM) mix: Matrigel TM	Corning	356230	
MEA electrodes	Qwane Biosciences		(Lausanne, Switzerland)
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Software</b>			
Labview	National Instruments		Switzerland
IgorPro	WaveMetrics		Lake Oswega, USA