

Materials List for

Whole Neonatal Cochlear Explants as an *In vitro* Model

Soledad Levano¹, Yu Lu¹, Maurizio Cortada¹, Daniel Bodmer^{1,2}

¹Department of Biomedicine, University of Basel Hospital ²Department of Otorhinolaryngology, Head and Neck Surgery, University of Basel Hospital

Corresponding Author

Soledad Levano
s.levano@unibas.ch

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jove.com/video/65160

Materials

Name	Company	Catalog Number	Comments
15 mL High-Clarity Polypropylene Conical Tube 17 x 120 mm style	FALCON	352096	
45° Angled Forceps	Fine Science Tools	11251-35	
50 mL Polypropylene Conical Tube 30 x 115 mm style	FALCON	352070	
Antifade Mounting Medium	VECTASHIELD	H-1000	
Alexa Fluor 568 phalloidin	Thermofisher	2151755	
Anti-beta III Tubulin antibody [TUJ-1]	Abcam	ab14545	
Antifade Mounting Medium With DAPI	VECTASHIELD	H-1200	
Anti-myosin VII rabbit polyclonal	Abcam	ab3481	
B-27 Supplement (50x), minus antioxidants	Thermofisher	10889038	
CARBON STEEL surgical blades 23	Swann Moiton	210	
CellEvent™ Caspase-3/7 Green Detection Reagent	Thermofisher	C10723	
DMEM/F-12/(1:1)(1x) + GlutaMAX	Thermofisher	31331028	
Double spatulas, one curved end	VWR	RSGA038.150	
Ethyl alcohol 70% V/V 1,000 mL	bichsel	160 0 106 00	
Fetal Bovine Serum, certified	Thermofisher	16000036	
Fixative Solution 4% paraformaldehyde prepared in PBS	Thermofisher	201255309/201255305	
High Intensity Cold Halogen Light Source	Intralux®	5100	
Huygens Professional version 21.10	Scientific Volume Imaging		
ibidi µ-Slide 8 well	ibidi	80826	
microscope	LEICA	M80	
microscope	LEICA	MS5	
MitoSOX™ Red Mitochondrial Superoxide Indicator, for live-cell imaging	Thermofisher	M36008	
N2 supplement (100x)	Thermofisher	17502048	

Nikon Eclipse Ti microscope with a Yokogawa CSU-W1 spinning disk confocal unit, and a Photometrics Prime 95B camera.	NIKON		
Nikon Eclipse Ti microscope with an A1 point-scanning confocal unit	NIKON		
Operating scissors	Fine Science Tools	14005-16	
Operating scissors	Fine Science Tools	14088-10	
Operating tweezers	Fine Science Tools	11008-15	
PBS pH 7.2 (1x), 500mL	Thermofisher	20012-019	
Penicillin	Sigma-Aldrich	P3032	
POLY-D-LYSINE HYDROBROMIDE MOL WT GT 30	Sigma-Aldrich	P7405	
Scalpel Handle #4	Fine Science Tools	10004-13	
Steri 250 Second sterilizer	Simon Keller AG	031100	
Sterilizer, desiccant pellets	Simon Keller AG	31120	
Tissue Culture Dish 60 x 15 mm	FALCON	353802	
Tissue Culture Dish 60 x 15 mm	FALCON	353004	
Trito X-100	Sigma	T9284	
Unconventional myosin-VIIa	Developmental Studies Hybridoma Bank	138-1s	
WFI for Cell Culture[-]Antimicrobial, 500 mL	Thermofisher	A12873-01	