

Materials List for:

# Neonatal Murine Cochlear Explant Technique as an *In Vitro* Screening Tool in Hearing Research

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URL: <https://www.jove.com/video/55704>

DOI: [doi:10.3791/55704](https://doi.org/10.3791/55704)

## Materials

Name	Company	Catalog Number	Comments
Ampicillin, Sodium Salt	Invitrogen	11593-027	
anti-CtBP2 antibody, mouse(IgG1)	BD Transduction Laboratories	612044	
anti-Myo7A antibody, rabbit	Proteus Biosciences	25-6790	
anti-NF-H antibody, chicken	EMD Millipore	AB5539	
anti-PSD95 antibody, mouse(IgG2a)	Antibodies Inc.	75-028	
anti-Tuj1 antibody, mouse	BioLegend	801202	
Cell-Tak Cell and Tissue Adhesive, 5 mg	Corning	354241	
CELLSTAR 15 mL Centrifuge Tubes, Conical bottom, Graduation, Sterile	Greiner Bio-One	188161	
CELLSTAR Cell Culture Dish, 100 x 20 mm	Greiner Bio-One	664160	
CELLSTAR Cell Culture Dish, 35 x 10 mm, 4 inner rings	Greiner Bio-One	627170	
CELLSTAR Cell Culture Dish, 60 x 15 mm	Greiner Bio-One	628160	
CELLSTAR 50 mL Centrifuge Tubes, Conical bottom, Graduation, Sterile	Greiner Bio-One	227261	
Clear Nail Polish	Electron Microscopy Sciences	72180	
Clear Wall Glass Bottom Dishes (Glass 40mm), PELCO®, Sleeve/20, 50 x 7 mm	Ted Pella Inc.	14027-20	
Coverslips, Round, Glass, 10 mm diameter, Thickness #1, 0.13 - 0.16mm	Ted Pella Inc.	260368	
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride)	Thermo Fisher Scientific	D1306	
Distilled water, 500 mL	Thermo Fisher Scientific	15230-162	
Dulbecco's Modified Eagle's Medium (DMEM), high glucose, pyruvate, no glutamine, 500 mL	Thermo Fisher Scientific	10313-039	
Dumont #4 Forceps	Fine Science Tools	11241-30	
Dumont #55 Forceps (Dumostar)	Fine Science Tools	11295-51	

Ethyl alcohol (EtOH), Pure, 200 proof, anhydrous, ≥99.5%	Sigma-Aldrich	459836-1L	
Fetal Bovine Serum (FBS), qualified, USDA-approved regions, 500 mL	Thermo Fisher Scientific	10437-028	Aliquot in 50 mL tubes and store in -20°C freezer
goat anti-chicken-647 secondary antibody	Thermo Fisher Scientific	A-21469	
goat anti-mouse(IgG)-568 secondary antibody	Thermo Fisher Scientific	A-11004	
goat anti-mouse(IgG1)-568 secondary antibody	Thermo Fisher Scientific	A-21124	
goat anti-mouse(IgG2a)-488 secondary antibody	Thermo Fisher Scientific	A-21131	
goat anti-rabbit-488 secondary antibody	Thermo Fisher Scientific	R37116	
H <sub>2</sub> O, sterile, EmbryoMax Ultra Pure Water, 500 mL	EMD Millipore	TMS-006-B	
Hank's Balanced Salt Solution (HBSS), calcium, magnesium, no phenol red, 500 mL	Thermo Fisher Scientific	14025-092	
Instrument Tray with Lid Stainless Steel	Mountainside Medical	TechMed4255	
Micro (dissecting) knife – angled 30°	Fine Science Tools	10056-12	
Microscope slides, VistaVision, color-coded, 75 x 25 mm (3 x 1"), 1 mm thick, white, pack of 72	VWR	16004-382	
N-2 Supplement (100X), 5 mL	Thermo Fisher Scientific	17502-048	
NaHCO <sub>3</sub> , Sodium Bicarbonate 7.5% solution, 100 mL	Thermo Fisher Scientific	25080-094	
NaOH, sodium hydroxide solution, 1 L	Thermo Fisher Scientific	SS266-1	
Normal Horse Serum (NHS)	Invitrogen	16050130	
Operating scissors	Roboz Surgical Instruments Co.	RS-6806	
Paraformaldehyde (PFA), Reagent Grade, Crystalline	Sigma-Aldrich	P6148	Prior to use: Establish Standard Operating Procedures based on protocols available online
PBS, pH 7.4, 500 mL	Thermo Fisher Scientific	10010-023	Autoclave prior to use
Phalloidin, Alexa Fluor 568	Thermo Fisher Scientific	A12380	
Prep Pad, Non Sterile	Medline	05136CS	
Safe-Lock Microcentrifuge Tubes, Polypropylene, 0.5 mL	Eppendorf	022363719	Autoclave prior to use
Safe-Lock Microcentrifuge Tubes, Polypropylene, 1.5 mL	Eppendorf	022363204	Autoclave prior to use
Scalpel Blades - #15	Fine Science Tools	10015-00	
Scalpel Handle - #4	Fine Science Tools	10004-13	
Stemi 2000-C Stereo Microscope	Zeiss	000000-1106-133	
TCS SP5 confocal microscope	Leica	N/A	
Triton-X (non-ionic surfactant)	Integra	T756.30.30	
VectaShield antifade mounting medium for fluorescence	Vector Laboratories, Inc.	H-1000	
Zipper Bag, Reclosable, 4 x 6" - 2 mm thick	Zipline	0609132541599	