

Materials List for:

Auditory Brainstem Response and Outer Hair Cell Whole-cell Patch Clamp Recording in Postnatal Rats

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Materials

Name	Company	Catalog Number	Comments
Anesthetic			
Pentobarbital sodium	Sigma	P3761	1.5% in water
Dissection solution			
Leiboviz's L-15 Medium	Life Technologies	41300-039	1 pack in 1 L water
Collagenase IV	Sigma	C5138	2 mg/mL in L-15
HEPES	Sigma	7365-45-9	10 mM
Immunostaining solutions			
PBS	Thermo Fisher Scientific	10010023	PH 7.3
Paraformaldehyde	Sigma	158127	4% in PBS
Triton X-100	Amresco	ZS-0694	0.3% in PBS
Normal goat serum	Thermo Fisher Scientific	10000C	10% in PBS
prestin antibody	Santa Cruz	SC-22694	dil 1:200
Alexa Fluor 488-conjugated antibody	Thermo Fisher Scientific	A-11055	dil 1:600
Phalloidin-Tetramethylrhodamine B isothiocyanate	Sigma	P1951	dil 1:200
DAPI	Solarbio	C0060	dil 1:20
Extracellular solution			
Leiboviz's L-15 Medium	Life Technologies	41300-039	1 pack in 1 L water
HEPES	Sigma	7365-45-9	10 mM
Intracellular solution			
CsCl	Sigma	7647-17-8	140 mM
MgCl ₂	Sigma	7791-18-6	2 mM
EGTA	Sigma	67-42-5	10 mM
HEPES	Sigma	7365-45-9	10 mM
Equipment			
Osmometer	Gonotec	OSMOMAT 3000 basic	

Forcep	WPI	14095	Tweezers dumont
Micropipette puller	Sutter Instrument	MODLE-P97	
Micro Forge	Narishigen	MF-830	
Mini Operating System	Sutter Instrument	MP-285	
MultiClamp	Axon	700B	
Low-Noise Data Acquisition System	Axon	1440A	
ES1 speaker	Tucker-Davis Technologies		
TDT system 3	Tucker-Davis Technologies		
Name	Company	Catalog Number	Comments
Software			
SigGenRP software	Tucker-Davis Technologies		
BioSigRP software	Tucker-Davis Technologies		
jClamp	Scientific Solutions		
Name	Company	Catalog Number	Comments
Animal			
SD rat	Experimental Animal Center of Southern Medical University		