

Materials List for:

Physiological Preparation of Hair Cells from the Sacculus of the American Bullfrog (*Rana catesbeiana*)

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Materials

Name	Company	Catalog Number	Comments
Common to both preparations			
Stereo-dissection microscope	Leica	MZ6	Other sources can be used
Tricaine methanesulfonate	Sigma	E10521	Other sources can be used
Metal pithing rod	Fine Science Tools	10140-01	
Vannas spring scissors	Fine Science Tools	15000-03	
Dumont #5 forceps	Fine Science Tools	11252-20	
Glass Pasteur pipette and bulb (x2)	Fisher Scientific	22-042816	
Fine eyelash mounted on a hypodermic needle	Fisher Scientific	22-557-172	
Dow-corning vacuum grease	Fisher Scientific	14-635-5C	
Syringe for vacuum grease	Fisher Scientific	14-829-45	Other sources can be used
35 mm Petri dish (x2 - 3)	Fisher Scientific	08-772A	Other sources can be used
Micropipette puller	Sutter	P-97 or P-2000	
120 V Solenoid puller			Home-made, see parts list
Sputter coater	Anatech USA	Hummer 6.2	
Current source for iontophoresis	Axon Instruments	AxoClamp 2B	Other sources can be used
Piezoelectric actuator	Piezosystem Jena	P-150-00	
Amplifier for piezoelectric actuator	Piezosystem Jena	ENV800	
Borosilicate glass capillary	World Precision Instruments	1B120F-3	
Name	Company	Catalog Number	Comments
For one-chamber preparation			
Microelectrode amplifier	Axon Instruments	AxoClamp 2B	Can be used for iontophoresis and microelectrode recordings simultaneously
Magnetic pins (x2)			Home-made, see parts list
Open-top chamber with magnetic sheet			Home-made, see parts list
Name	Company	Catalog Number	Comments
For two-chamber preparation			
Upper chamber			Supplementary file 1
Troughed lower chamber			Supplementary file 2
Aluminum foil	Fisher Scientific	01-213-100	Other sources can be used
Mounting block			Supplementary file 3
Wooden applicator sticks	Fisher Scientific	23-400-112	Other sources can be used
Teflon sheet	McMaster-Carr	8545K12	For teflon applicator

Cyanoacrylate glue	3M	1469SB	
Lab tissues (Kimwipes)	Fisher Scientific	06-666A	Other sources can be used
Gentamicin sulfate	Sigma-Aldrich	G1914	Other sources can be used
Quick-setting epoxy	McMaster-Carr	7605A18	
18 mm glass coverslips	Fisher Scientific	12-546	Other sources can be used
Name	Company	Catalog Number	Comments
Saline components			
NaCl	Fisher Scientific	S271-3	Other sources can be used
KCl	Sigma-Aldrich	P4504-500G	Other sources can be used
CaCl ₂ • 2H ₂ O	Fisher Scientific	10035-04-8	Other sources can be used
HEPES	Sigma-Aldrich	H3375-100G	Other sources can be used
D-(+)-glucose	Sigma-Aldrich	G7021	Other sources can be used
Name	Company	Catalog Number	Comments/Description
Parts lists for home-made equipment			
Solenoid puller			
Solenoid	Guardian Electric	A420-065426-00	Other sources can be used
Foot-pedal switch	Linemaster	T-51-SC36	Other sources can be used
Pipette holder	World Precision Instruments	MEH900R	Other sources can be used
Coarse manipulator	Narishige Group	MM-3	Other sources can be used
Platinum wire	Alfa Aesar	25093	Other sources can be used
Power supply	Leica	Z050-261	Other sources can be used
Name	Company	Catalog Number	Comments/Description
Magnetic pins			
Epoxy	McMaster-Carr	7556A33	Other sources can be used
1 mm thickness aluminum	McMaster-Carr	89015K45	Other sources can be used
Insect pins	Fine Science Tools	26000-40	Other sources can be used
Name	Company	Catalog Number	Comments/Description
Open-top magnetic chamber			
Flexible magnetic strip	McMaster-Carr	5759K75	Other sources can be used
1 mm thickness aluminum	McMaster-Carr	89015K45	Other sources can be used