

Materials List for:

Making, Testing, and Using Potassium Ion Selective Microelectrodes in Tissue Slices of Adult Brain

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Materials

Name	Company	Catalog Number	Comments
Vibratome	DSK	Microslicer Zero 1	
Mouse: C57BL/6NTac inbred mice	Taconic	Stock#B6	
Microscope	Olympus	BX51	
Electrode puller	Sutter	P-97	
Ag/AgCl ground pellet	WPI	EP2	
pCLAMP10.3	Molecular Devices	n/a	
Custom microfil 28G tip	World precision instruments	CMF28G	
Tungsten Rod	A-M Systems	716000	
Bipolar stimulating electrodes	FHC	MX21XEW(T01)	
Stimulus isolator	World precision instruments	A365	
Grass S88 Stimulator	Grass Instruments Company	S88	
Borosilicate glass pipettes	World precision instruments	1B150-4	
A to D board	Digidata 1322A	Axon Instruments	
Signal Amplifier	Multiclamp 700A or 700B	Axon Instruments	
Headstage	CV-7B Cat 1	Axon Instruments	
Patch computer	Dell	n/a	
Sodium Chloride	Sigma	S5886	
Potassium Chloride	Sigma	P3911	
HEPES	Sigma	H3375	
Sodium Bicarbonate	Sigma	S5761	
Sodium Phosphate Monobasic	Sigma	S0751	
D-glucose	Sigma	G7528	
Calcium Chloride	Sigma	21108	
Magnesium Chloride	Sigma	M8266	
valinomycin	Sigma	V0627-10mg	
1,2-dimethyl-3-nitrobenzene	Sigma	40870-25ml	
Potassium tetrakis (4-chlorophenyl)borate	Sigma	60591-100mg	
5% dimethyldichlorosilane in heptane	Sigma	85126-5ml	
TTX	Cayman Chemical Company	14964	
Hydrochloric acid	Sigma	H1758-500mL	
Sucrose	Sigma	S9378-5kg	

Pipette Micromanipulator	Sutter	MP-285 / ROE-200 / MPC-200	
Objective lens	Olympus	PlanAPO 10xW	