

Materials List for:

Recording Synaptic Plasticity in Acute Hippocampal Slices Maintained in a Small-volume Recycling-, Perfusion-, and Submersion-type Chamber System

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URL: <https://www.jove.com/video/55936>

DOI: [doi:10.3791/55936](https://doi.org/10.3791/55936)

Materials

Name	Company	Catalog Number	Comments
Reagents required			
NaCl	Sinopharm Chemical Reagent, China	10019318	
KCl	Sinopharm Chemical Reagent, China	10016318	
KH ₂ PO ₄	Sinopharm Chemical Reagent, China	10017618	
MgCl ₂ ·6H ₂ O	Sinopharm Chemical Reagent, China	10012818	
CaCl ₂	Sinopharm Chemical Reagent, China	10005861	
NaHCO ₃	Sinopharm Chemical Reagent, China	10018960	
Glucose	Sinopharm Chemical Reagent, China	10010518	
NaH ₂ PO ₄	Sinopharm Chemical Reagent, China	20040718	
HEPES	Sigma	H3375	
Sodium pyruvate	Sigma	A4043	
MgSO ₄	Sinopharm Chemical Reagent, China	20025118	
NaOH	Sinopharm Chemical Reagent, China	10019718	
Tools and materials for dissection			
Decapitators	Harvard apparatus	55-0012	for rat decapitation
Bandage Scissors	SCHREIBER	12-4227	for mouse decapitation
double-edge blade	Flying Eagle, China	74-C	
IRIS Scissors	RWD, China	S12003-09	
Bone Rongeurs	RWD, China	S22002-14	
Spoon	Hammacher	HSN 152-13	
dental cement spatula	Hammacher	HSN 016-15	
dental double end excavator	Blacksmith Surgical, USA	BS-415-017	
Vibrating Microtome	Leica, Germany	VT1200S	
surgical blade	RWD, China	S31023-02	
surgical holder	RWD, China	S32007-14	
Electrophysiology equipment and materials			

Vertical Pipette Puller	Narishige, Japan	PC-10	
Vibration isolation table	Meirits, Japan	ADZ-A0806	
submerged type recording chamber	Warner Instruments	RC-26GLP	
4 Axis Micromanipulator	Sutter, USA	MP-285, MP-225	
Platinum Wire	World Precision Instruments	PTP406	
Amplifier	Molecular Devices, USA	Multiclamp 700B	
Data Acquisition System	Molecular Devices, USA	Digidata 1440A	
Anaysis software	Molecular Devices, USA	Clampex 10.2	
Fluorescence Microscope	Nikon, Japan	FN1	
LED light source	Lumen Dynamics Group, Canada	X-cite 120LED	
micropipettes	Harvard apparatus	GC150TF	extracellular recording
borosilicate micropipettes	Sutter, USA	BF150-86	patch clamp
tungsten electrode	A-M Systems, USA	575500	
peristaltic pump	Longer, China	BT00-300T	
tubes for peristaltic pump	ISMATEC, Wertheim, Germany	SC0309	1x inflow, ID: 1.02 mm
tubes for peristaltic pump	ISMATEC, Wertheim, Germany	SC0319	2x tubes for outflow, ID: 2.79 mm
CCD camera	PCO, Germany	pco.edge sCMOS	
lens cleaning paper	Kodak		
50 mL conical centrifuge tube	Thermo scientific	339652	
Prechamber	Warner Instruments	BSC-PC	
Inline heater	Warner Instruments	SF-28	
Temperature Controller	Warner Instruments	TC-324B	