

Materials List for:

Slice Patch Clamp Technique for Analyzing Learning-Induced Plasticity

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URL: <https://www.jove.com/video/55876>

DOI: [doi:10.3791/55876](https://doi.org/10.3791/55876)

Materials

Name	Company	Catalog Number	Comments
Rota-Rod Treadmills	Med Associates Inc.	ENV577	
inhibitory avoidance box	Shinano Seisakusho		
Pentobarbital	Kyoritsu Seiyaku		
Blade	Nisshin EM Co., Ltd	LC05Z	
Cardiac perfusion syringe	JMS Co., Ltd	JS-S00S	
Vibratome	Leica Microsystems	VT-1200	
Horizontal puller	Sutter Instrument	Model P97	
Microfilm 34 gauge	World Precision Instruments, Inc	MF34G-5	
0.22 µm filter	Millipore	SLGVR04NL	
Axopatch-1D amplifier	Axon Instruments		
Digidata 1440 AD board	Axon Instruments		
pCLAMP 10 software	Axon Instruments		
Upright Microscope	Olympus	BX51WI	
CCD camera	Olympus	U-CMAD3	
Camera controller	Hamamatsu Photonics K.K.	C2741	
Stimulator	Nihon Kohden	SEN-3301	
Isolator	Nihon Kohden	SS-104J	
Motorized manipulator	Sutter Instrument	MP-285	
Micromanipulator	Narishige	NMN-21	
Peristaltic Pump	Gilson, Inc	MINIPULS® 3	
Glass capillary	Narishige	GD-1.5	
Ag/AgCl electrode	World Precision Instruments, Inc	EP4	
Slice Anchor	Warner instruments	64-0252	
Stimulus electrode	Unique Medical Co., Ltd	KU201-025B	
Materials	Company	Catalog Number	Comments
Dissection buffer/ artificial CSF			
NaH ₂ PO ₄ • 2H ₂ O	Sigma-Aldrich Co.	C1426	
KCl	Wako Pure Chemical Industries	163-03545	
CaCl ₂	Wako Pure Chemical Industries	039-00475	
MgCl ₂ • 6H ₂ O	Wako Pure Chemical Industries	135-00165	
Choline chloride	Sigma-Aldrich Co.	C7527	
Ascorbic acid	Wako Pure Chemical Industries	190-01255	
Pyruvic acid Na	Wako Pure Chemical Industries	199-03062	
NaHCO ₃	Sigma-Aldrich Co.	28-1850-5	

Glucose	Sigma-Aldrich Co.	07-0680-5	
Materials	Company	Catalog Number	Comments
Intracellular solution			
K-Gluconate	Sigma-Aldrich Co.	G4500	
HEPES	Wako Pure Chemical Industries	346-01373	
EGTA	Wako Pure Chemical Industries	348-01311	
Na ₂ ATP	Nacalai Tesque	01072-24	
Na ₃ GTP	Sigma-Aldrich Co.	G-8877	
Na phosphocreatine	Sigma-Aldrich Co.	P-7936	
CsMeSO ₃	Sigma-Aldrich Co.	C1426	
CsCl	Wako Pure Chemical Industries	033-01953	
Materials	Company	Catalog Number	Comments
Drugs in aCSF			
2-Chloroadenosine	Sigma-Aldrich Co.	C5134	
Picrotoxin	Sigma-Aldrich Co.	P-1675	
Tetrodotoxin	Wako Pure Chemical Industries	207-15901	
CNQX	Sigma-Aldrich Co.	C239	
APV	Sigma-Aldrich Co.	A5282	