

Materials List for:

Implementing Dynamic Clamp with Synaptic and Artificial Conductances in Mouse Retinal Ganglion Cells

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Materials

Name	Company	Catalog Number	Comments
Reagent			
Isoflurane Inhalation Anaesthetic	Pharmachem		
Ames Medium with L-Glutamate (Powder)	Sigma-Aldrich		
Potassium Gluconate, Anhydrous	Sigma-Aldrich		
HEPES Sodium salt	Sigma-Aldrich		
Magnesium chloride solution (4.9 mol/l)	Sigma-Aldrich		
Adenosine 5'-triphosphate (ATP) disodium salt hydrate	Sigma-Aldrich		
Guanosine 5'-triphosphate sodium salt hydrate	Sigma-Aldrich		
Ethylene glycol-bis(2-amin-thylether)-N,N,N',N'-tetraacetic acid	Sigma-Aldrich		
Paraformaldehyde Powder, 95%	Sigma-Aldrich		
Anti-Lucifer Yellow, Rabbit IgG Fraction (3 mg/ml)	Invitrogen		
Alexa Fluor 594 Goat Anti-Rabbit IgG (H+L) 2 mg/ml	Invitrogen		
Fluorescent Preserving Media	BioFX Laboratories Inc.		
Equipment			
Capillary Glass Tubing with flame polished ends (OD = 1.50 mm, ID = 0.86 mm, Length = 15 cm)	Warner Instruments	64-0794	
Single Stage Glass Mic-lectrode Puller	Narishinge Japan	Model PP-830	
Minipuls 2	Gilson		
Milllex-GV 0.22 µm Filter Unit	Millipore Corporation	SLGV004SL	
Luer Lock Reusable Hypodermic Needle: 30 G	Smith Nephew (Australia)		
Single Inline Solution Heater	Warner Instruments	Model SH-27B	
Dual Automatic Temperature Controller	Warner Instruments	TC-344B	
Olympus Stereomicroscope SZ61	Olympus Corporation		
Olympus Microscope BX50WI: with 40X objective	Olympus Corporation		
0-30 V 2.5 A DC Power Supply	Dick Smith Electronics	Q1770	

Digital Microscopic Camera ProgResMF cool	Jenoptik		
Micromanipulator MP-225	Sutter Instrument Company		
Patch Clamp Amplifier EPC 8	HEKA Elektronik		
InstruTECH LIH 8+8 Data Acquisition System	HEKA Elektronik		
Computer: DELL	Dell Corporation		