

Materials List for:

Recording Gamma Band Oscillations in Pedunculopontine Nucleus Neurons

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Materials

Name	Company	Catalog Number	Comments
Sucrose	Sigma-Aldrich	S8501	C ₁₂ H ₂₂ O ₁₁ , molecular weight = 342.30
Sodium Bicarbonate	Sigma-Aldrich	S6014	NaHCO ₃ , molecular weight = 84.01
Potassium Chloride	Sigma-Aldrich	P3911	KCl, molecular weight = 74.55
Magnesium Chloride Hexahydrate	Sigma-Aldrich	M9272	MgCl ₂ · 6H ₂ O, molecular weight = 203.30
Calcium Chloride Dihydrate	Sigma-Aldrich	C3881	CaCl ₂ · 2H ₂ O, molecular weight = 147.02
D-(+)-Glucose	Sigma-Aldrich	G5767	C ₆ H ₁₂ O ₆ , molecular weight = 180.16
L-Ascorbic Acid	Sigma-Aldrich	A5960	C ₆ H ₈ O ₆ , molecular weight = 176.12
Sodium Chloride	Acros Organics	327300025	NaCl, molecular weight = 58.44
Potassium Gluconate	Sigma-Aldrich	G4500	C ₆ H ₁₁ KO ₇ , molecular weight = 234.25
Phosphocreatine di(tris) salt	Sigma-Aldrich	P1937	C ₄ H ₁₀ N ₃ O ₅ P · 2C ₄ H ₁₁ NO ₃ , molecular weight = 453.38
HEPES	Sigma-Aldrich	H3375	C ₈ H ₁₈ N ₂ O ₄ S, molecular weight = 238.30
EGTA	Sigma-Aldrich	E0396	[-CH ₂ OCH ₂ CH ₂ N(CH ₂ CO ₂ H) ₂] ₂ , molecular weight = 380.40
Adenosine 5'-triphosphate magnesium salt	Sigma-Aldrich	A9187	C ₁₀ H ₁₆ N ₅ O ₁₃ P ₃ · xMg ²⁺ , molecular weight = 507.18
Guanosine 5'-triphosphate sodium salt hydrate	Sigma-Aldrich	G8877	C ₁₀ H ₁₆ N ₅ O ₁₄ P ₃ · xNa ⁺ , molecular weight = 523.18
Tetrodotoxin citrate	Alomone Labs	T-550	C ₁₁ H ₁₇ N ₃ O ₈ , molecular weight = 319.27
DL-2-Amino-5-Phosphonovaleric Acid	Sigma-Aldrich	A5282	C ₅ H ₁₂ NO ₅ P, molecular weight = 197.13
CNQX disodium salt hydrate	Sigma-Aldrich	C239	C ₉ H ₂ N ₄ Na ₂ O ₄ · xH ₂ O, molecular weight = 276.12
Strychnine	Sigma-Aldrich	S0532	C ₂₁ H ₂₂ N ₂ O ₂ , molecular weight = 334.41
Mecamylamine hydrochloride	Sigma-Aldrich	M9020	C ₁₁ H ₂₁ N · HCl, molecular weight = 203.75
Gabazine (SR-95531)	Sigma-Aldrich	S106	C ₁₅ H ₁₈ BrN ₃ O ₃ , molecular weight = 368.23
Ketamine hydrochloride	Mylan	67457-001-00	
Microscope	Nikon	Eclipse E600FN	

Micromanipulator	Sutter Instruments	ROE-200	
Micromanipulator	Sutter Instruments	MPC-200	
Amplifier	Molecular Devices	Multiclamp 700B	
A/D converter	Molecular Devices	Digidata 1440A	
Heater	Warner Instruments	TC-324B	
Pump	Cole-Parmer	Masterflex L/S 7519-20	
Pump cartridge	Cole-Parmer	Masterflex 7519-85	
Pipette puller	Sutter Instruments	P-97	
Camera	Q-Imaging	RET-200R-F-M-12-C	
Vibratome	Leica Biosystems	Leica VT1200 S	
Refrigeration system	Vibratome Instruments	900R	
Equipment			
microscope	Nikon	Eclipse E600FN	
micromanipulator	Sutter Instruments	ROE-200	
micromanipulator	Sutter Instruments	MPC-200	
amplifier	Molecular Devices	Multiclamp 700B	
A/D converter	Molecular Devices	Digidata 1440A	
heater	Warner Instruments	TC-324B	
pump	Cole-Parmer	Masterflex L/S 7519-20	
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