

Materials List for:

Two-photon Calcium Imaging in Neuronal Dendrites in Brain Slices

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Materials

Name	Company	Catalog Number	Comments
Animal Strain: Mouse CD1	Charles River	022	
Isoflurane	AbbVie Corporation	0B506-099	
CGP 55845 hydrochloride	Abcam	ab120337	
Calcium chloride	Sigma-Aldrich	C4901	
D-(+)-Glucose	Sigma-Aldrich	G8270	
HEPES	Sigma-Aldrich	H3375	
Magnesium chloride	Sigma-Aldrich	M8266	
Magnesium sulfate heptahydrate	Sigma-Aldrich	230391	
Paraformaldehyde powder, 95%	Sigma-Aldrich	158127	
Potassium chloride	Sigma-Aldrich	P3911	
Potassium gluconate	Sigma-Aldrich	P1847	
Sodium azide	Sigma-Aldrich	S2002	
Sodium bicarbonate	Sigma-Aldrich	S8875	
Sodium chloride	Sigma-Aldrich	S5886	
Sucrose	Sigma-Aldrich	S9378	
Triton X-100	Sigma-Aldrich	T9284	
Trizma base	Sigma-Aldrich	T1503	
Trizma hydrochloride	Sigma-Aldrich	T3253	
Sodium phosphate dibasic dihydrate	Sigma-Aldrich	71643	
Sodium phosphate monobasic monohydrate	Sigma-Aldrich	S9638	
Biocytin	Sigma-Aldrich	B4261	
Alexa Fluor 594 Hydrazide	ThermoFisher Scientific	A10438	
SR95531 (Gabazine)	Abcam	ab120042	
Adenosine triphosphate (ATP)-Tris	Sigma-Aldrich	A9062	
Guanosine (GTP)-Na ⁺	Sigma-Aldrich	G8877	
Oregon Green BAPTA-1	ThermoFisher Scientific	O6812	
Phosphocreatine di(tris) salt	Sigma-Aldrich	P1937	
Streptavidin-conjugated Alexa-546	ThermoFisher Scientific	S11225	
Patch Borosilicate Glass Capillaries	World Precision Instruments	1B100F-4	
Theta Borosilicate Glass Capillaries	Sutter Instrument	BT-150-10	
P-97 Flaming/Brown Micropipette puller	Sutter Instrument		

TCS SP5 Confocal Multiphoton Microscope	Leica Microsystems		
Chameleon Ultra II Ti:Sapphire multiphoton laser	Coherent		
LAS AF Imaging Acquisition Software	Leica Microsystems		
Temperature Controller TC-324B	Warner Instruments		
MultiClamp 700B Amplifier	Molecular Devices		
Digidata 1440A Digitizer	Molecular Devices		
Confocal Translator	Siskiyou		
Micromanipulator	Siskiyou		
pClamp Data Acquisition Software	Molecular Devices		
A365 Constant Current Stimulus Isolator	World Precision Instruments		
Vibraplane Optical Table	Kinetic Systems		