

Materials List for:

Preparation of Acute Spinal Cord Slices for Whole-cell Patch-clamp Recording in Substantia Gelatinosa Neurons

Mengye Zhu¹, Daying Zhang¹, Sicong Peng², Nana Liu², Jing Wu², Haixia Kuang², Tao Liu^{2,3}

¹Department of Pain, First Affiliated Hospital of Nanchang University

²Department of Pediatrics, First Affiliated Hospital of Nanchang University

³Center for Laboratory Medicine, First Affiliated Hospital of Nanchang University

Correspondence to: Tao Liu at liutaomm@hotmail.com

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Materials

Name	Company	Catalog Number	Comments
NaCl	Sigma	S7653	Used for the preparation of ACSF and PBS
KCl	Sigma	60130	Used for the preparation of ACSF, sucrose-ACSF, and K ⁺ -based intracellular solution
NaH ₂ PO ₄ ·2H ₂ O	Sigma	71500	Used for the preparation of ACSF, sucrose-ACSF and PBS
CaCl ₂ ·2H ₂ O	Sigma	C5080	Used for the preparation of ACSF and sucrose-ACSF
MgCl ₂ ·6H ₂ O	Sigma	M2670	Used for the preparation of ACSF and sucrose-ACSF
NaHCO ₃	Sigma	S5761	Used for the preparation of ACSF and sucrose-ACSF
D-Glucose	Sigma	G7021	Used for the preparation of ACSF
Ascorbic acid	Sigma	P5280	Used for the preparation of ACSF and sucrose-ACSF
Sodium pyruvate	Sigma	A7631	Used for the preparation of ACSF and sucrose-ACSF
Sucrose	Sigma	S7903	Used for the preparation of sucrose-ACSF
K-gluconate	Wako	169-11835	Used for the preparation of K ⁺ -based intracellular solution
Na ₂ -Phosphocreatine	Sigma	P1937	Used for the preparation of intracellular solution
EGTA	Sigma	E3889	Used for the preparation of intracellular solution
HEPES	Sigma	H4034	Used for the preparation of intracellular solution
Mg-ATP	Sigma	A9187	Used for the preparation of intracellular solution
Li-GTP	Sigma	G5884	Used for the preparation of intracellular solution
CsMeSO ₄	Sigma	C1426	Used for the preparation of Cs ⁺ -based intracellular solution
CsCl	Sigma	C3011	Used for the preparation of Cs ⁺ -based intracellular solution
TEA-Cl	Sigma	T2265	Used for the preparation of Cs ⁺ -based intracellular solution

Neurobiotin 488	Vector	SP-1145	0.05% neurobiotin 488 could be used for morphological studies
Agar	Sigma	A7002	3% agar block was used in our protocol
Paraformaldehyde	Sigma	P6148	4% paraformaldehyde was used for immunohistochemical processing
Na ₂ HPO ₄	Hengxing Chemical Reagents		Used for the preparation of PBS
Mount Coverslipping Medium	Polyscience	18606	
Urethan	National Institute for Food and Drug Control	30191228	1.5 g/kg, i.p.
Borosilicate glass capillaries	World Precision Instruments	TW150F-4	1.5 mm OD, 1.12 mm ID
Micropipette puller	Sutter Instrument	P-97	Used for the preparation of micropipettes
Vibratome	Leica	VT1000S	
Vibration isolation table	Technical Manufacturing Corporation	63544	
Infrared CCD camera	Dage-MIT	IR-1000	
Patch-clamp amplifier	HEKA	EPC-10	
Micromanipulator	Sutter Instrument	MP-285	
X-Y stage	Burleigh	GIBRALTAR X-Y	
Upright microscope	Olympus	BX51WI	
Osmometer	Advanced	FISKE 210	
PH meter	Mettler Toledo	FE20	
Confocol microscope	Zeiss	LSM 700	