

Materials List for:

Preparation of Acute Subventricular Zone Slices for Calcium Imaging

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Materials

Name	Company	Catalog Number	Comments
Sucrose	Sigma	S0389	Dissection: 147 mM ACSF: 0 mM
NaCl	Sigma	S9888	Dissection: 42 mM ACSF: 126 mM
KCl	Sigma	P3911	Dissection: 2.5 mM ACSF: 2.5 mM
MgCl ₂ ·6H ₂ O	Sigma	M9272	Dissection: 4.33 mM ACSF: 1 mM
NaH ₂ PO ₄ ·H ₂ O	Sigma	S8282	Dissection: 1.25 mM ACSF: 1.25 mM
Glucose	Sigma	G8270	Dissection: 10 mM ACSF: 10 mM
NaHCO ₃	Sigma	S6014	Dissection: 26 mM ACSF: 26 mM
CaCl ₂ ·2H ₂ O	Sigma	C3306	Dissection: 1.33 mM ACSF: 2 mM

Table 1. Chemical list and recipes of dissection solution and ACSF.

Name	Company	Catalog Number	Comments
Vibratome	Leica	VT 1000S	
Super Glue	Surehold or 3M	Surehold 3G Super Glue or 3M Vet-Bond	
Dissection tools	Roboz or Ted Pella		
Fluo-4 AM calcium-sensitive dye	Invitrogen	F14201	
Oregon Green BAPTA-1 AM calcium-sensitive dye	Invitrogen	O6807	
Pluronic F-127 20% solution in DMSO	Invitrogen	P3000MP	
Upright confocal microscope	Olympus	FV300 or FV1000	
Water-immersion objectives	Olympus	LUMPlanFI 40 x W/IR (NA 0.80); LUMPlanFI 60 x W/I (NA 0.90)	
Micromanipulators	Sutter	MPC-200/MPC-325/MPC-385	
Pressure controller	Parker Hannifin	Picospritzer	<3 PSI during application
Pipette puller	Sutter or Narshige	Sutter P-97 or Narshige PP-830	
Glass pipettes	Sutter	BF150-110-10	I.D.: 1.10, O.D.: 1.50
Peristaltic pump	Harvard Apparatus	Model 720	flow rate: 1 ml/min
Chamber bath	Warner Instruments	RC-26 GLP	Low profile allows for objective clearance
Tubing	Tygon		
Temperature Controller	Warner Instruments	TC-324B/344B	

Table 2. Materials/equipment list.