

Preparation of Acute Slices from Dorsal Hippocampus for Whole-Cell Recording and Neuronal Reconstruction in the Dentate Gyrus of Adult Mice

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jove.com/video/61980

Materials

Name	Company	Catalog Number	Comments
1mL syringes Omnifix-F	Braun melsungen AG	9161406V	
24 multiwells	SARSTEDT	8,33,922	
81x criogenic vial storage box	Fisherscientific	15-350-107B	storage chamber
Alexa Hydrazide dye	Invitrogen	A10436	
Big scissor	Fine science tool	14010-15	graefe forceps
Biocytin	IRIS biotech.	LS3510.0250	
Borosilicate Glass capillaries	Science products	GB150TF-10	storage chamber
Brush 5	Leonhardy	241	Micro double spatula, L 150 mm, blade width 4 mm
Calcium chloride dihydrate	Roth	5239.2	aCSF solution
Carbon steel microtome blade	feather	C35	
Chloridric acid	Roth	K025.1	
Confocal microscope	Zeiss	LSM880	with Airyscan
Cyanoacrylate glue	UHU	509141	
Cyanoacrylate glue, n-butyl-ester VetBond	3M		
EGTA	Roth	3054.1	
Fiji ImageJ	fiji.sc		
Filter paper 113A	ROTILABO Roth	AP180.1	
Fine tip tweezer	Dumont	0245fo	
Glass becker (150 ml)	ROTILABO Roth	X690.1	incubation chamber and dissection
Glass Petri dishes (10 cm dia.)	ROTILABO Roth	0690.1	
Glucose	Roth	X997.2	aCSF solution
Heated water bath	Grant Instruments Ltd	SUB14	
HEPES	Roth	9105.4	aCSF solution
Isofluoran	baxter	5239.2	Anesthetic

Large spatula	Roth	E286.1	
Magnesium Sulfate heptahydrate	Roth	8793.2	aCSF solution
Mg-ATP	Sigma Aldrich	A9187	
Microfil	World precision instruments	MF34G	
Na2-GTP	Sigma Aldrich	51120	
N-methyl-D-glucamine	Sigma Aldrich	M2004	aCSF solution
Normal goat serum	Sigma Aldrich	566380	
Nylon mesh kit	Warner Instruments	64-0198	incubation chamber and storage chamber
Paraformaldehyde	Sigma Aldrich	P6148	
Phosphate buffered saline 10X	Panbiotech	P04-53500	
Phosphocreatine disodium	Sigma Aldrich	P7936	
Pipette puller	Sutter instrument	P-2000	
Pipette tips	SARSTEDT	7,07,62,211	incubation chamber
Plastic box for syringe filters	SUPELCO	54135-U	storage chamber
Potassium Chloride	Roth	6781.3	aCSF solution
Potassium Gluconate	Roth	P1847	
Probenbecker becker (100 ml)	ROTILABO Roth	HT85.1	incubation chamber
Rounded tip tweezers	Fine science tool	11051-10	
Sainless steel blade	Gillette	Vibratome	
Small scissor	Fine science tool	14010-10	mayo scissor straight
Sodium Ascorbate	Roth	3149.2	aCSF solution
Sodium Azide	Sigma Aldrich	S2002	
Sodium Bicarbonate	Roth	6885.1	aCSF solution
Sodium Chloride	Roth	3957.1	aCSF solution
Sodium Hydroxide	Roth	K021.1	
Sodium Phosphate monobasicdihydrat	Roth	K300.1	aCSF solution
Sodium Pyruvate	Roth	8793.2	aCSF solution
Streptavidin conjugated Alexa 488	Invitogen	s11223	
Thin spatula	Roth	E286.1	Double spatula, L 150 mm, blade width 9 mm
Transfer pipette	Sarstedt	861171	
Triton x100	Roth	3051.1	
Vibratome	Thermoscientific	Microm HM650V	
Filter device for ultrapure water	Merck-Millipore	Milli-Q IQ 7000	