

Materials List for:

In-depth Physiological Analysis of Defined Cell Populations in Acute Tissue Slices of the Mouse Vomeronasal Organ

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Materials

Name	Company	Catalog Number	Comments
Chemicals			
Agarose (low-gelling temperature)	PeqLab	35-2030	
ATP (Mg-ATP)	Sigma-Aldrich	A9187	
Bis(2-hydroxyethyl)-2-aminoethanesulfonic acid (BES)	Sigma-Aldrich	B9879	
Calcium chloride	Sigma-Aldrich	C1016	
Ethylene glycol tetraacetic acid (EGTA)	Sigma-Aldrich	E3889	
Glucose	Sigma-Aldrich	G8270	
GTP (Na-GTP)	Sigma-Aldrich	51120	
(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES)	Sigma-Aldrich	H3375	
Magnesium chloride	Sigma-Aldrich	M8266	
Potassium chloride	Sigma-Aldrich	P9333	
Potassium hydroxide	Sigma-Aldrich	03564	
Sodium chloride	Sigma-Aldrich	S7653	
Sodium hydrogen carbonate	Sigma-Aldrich	S5761	
Sodium hydroxide	Sigma-Aldrich	S8045	
Name	Company	Catalog Number	Comments
Surgical tools and consumables			
Large Petri dish, 90 mm	VWR		decapitation, dissection of VNO capsule
Small Petri dish, 35 mm	VWR		lid for VNO dissection, dish for embedding in agarose
Sharp large surgical scissor	Fine Science Tools		decapitation, removal of lower jaw
Strong bone scissors	Fine Science Tools		cutting incisors
Medium forceps, Dumont tweezers #2	Fine Science Tools		removing skin and palate
Micro spring scissors, 8.5 cm, curved, 7 mm blades	Fine Science Tools		cutting out VNO
Two pairs of fine forceps, Dumont tweezers #5	Fine Science Tools		dissecting VNO out of cartilaginous capsule
Small stainless steel spatula	Fine Science Tools		handling agarose block and tissue slices
Surgical scalpel			cutting agarose block into pyramidal shape

Name	Company	Catalog Number	Comments
Equipment			
Amplifier	HEKA Elektronik	EPC-10	
Borosilicate glass capillaries (1.50 mm OD/0.86 mm ID)	Science Products		
CCD-camera	Leica Microsystems	DFC360FX	
Filter cube, excitation: BP 450-490, suppression: LP 515	Leica Microsystems	I3	
Fluorescence lamp	Leica Microsystems	EL6000	
Hot plate magnetic stirrer	Snijders	34532	
Microforge	Narishige	MF-830	
Micromanipulator Device	Luigs & Neumann	SM-5	
Micropipette puller, vertical two-step	Narishige	PC-10	
Microscope	Leica Microsystems	CSM DM 6000 SP5	
Noise eliminator 50/60 Hz (HumBug)	Quest Scientific		
Objective	Leica Microsystems	HCX APO L20x/1.00 W	
Oscilloscope	Tektronik	TDS 1001B	
Osmometer	Gonotec	Osmomat 030	
Perfusion system 8-in-1	AutoMate Scientific		
pH Meter five easy	Mettler Toledo		
Pipette storage jar	World Precision Instruments	e212	
Recording chamber	Luigs & Neumann	Slice mini chamber	
Razor blades	Wilkinson Sword GmbH	Wilkinson Sword Classic	
Oxygenating slice storage chamber; alternative commercial chambers are: e.g., BSK1 Brain Slice Keeper (Digitimer) or the Pre-chamber (BSC-PC; Warner Instruments)	custom-made		
Stereo microscope	Leica Microsystems	S4E	
Trigger interface	HEKA Elektronik	TIB-14 S	
Vibratome	Leica Microsystems	VT 1000 S	
Water bath	Memmert	WNB 45	