

Materials List for:

Murine Short Axis Ventricular Heart Slices for Electrophysiological Studies

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Materials

Name	Company	Catalog Number	Comments
Leica VT 1000s	Leica Microsystems, Wetzlar, Germany		Microtome with vibrating blade.
Stainless Steel Blades	Campden Instruments, Loughborough, England	7550-1-SS	
Pasteur pipettes	Sigma-Aldrich, St. Louise, USA	Z627992	
Fine brush, e.g. size 6 (4/32")	VWR, International, Radnor, USA	149-2125	
Preparation table			self made
Molt for embedding ventricles in agarose			self made
1 mL Syringe	Becton, Dickinson; Franklin Lakes, USA	300013	
27 G x 3/4" Needles	Braun, Melsungen, Germany	4657705	
20 G 1 1/2" Needles	4657519		
Small scissor	WPI, Sarasota, USA	501263	
Tweezers #5, 0.1 x 0.06 mm tip	WPI, Sarasota, USA	500342	
Oxygen gas (medical grade O ₂)	Linde, Munich, Germany		
Carbogen gas (95 % O ₂ , 5 % CO ₂)	Linde, Munich, Germany		
NaCl	Sigma-Aldrich, St. Louise, USA	7647-14-5	
KCl	Sigma-Aldrich, St. Louise, USA	746436	
CaCl ₂	Sigma-Aldrich, St. Louise, USA	746495	
KH ₂ PO ₄	Sigma-Aldrich, St. Louise, USA	NIST200B	
HEPES	Sigma-Aldrich, St. Louise, USA	51558	
NaHCO ₃	Sigma-Aldrich, St. Louise, USA	S5761	
D(+)-Glucose	Sigma-Aldrich, St. Louise, USA	G8270	
MgSO ₄	Sigma-Aldrich, St. Louise, USA	M7506	
NaOH	Sigma-Aldrich, St. Louise, USA	S8045	
Cyanoacrylate glue	Henkel, Düsseldorf, Germany		
Low-melt Agarose	Roth, Karlsruhe, Germany	6351.2	
Heparin-sodium-25000 I.E./5 mL	Ratiopharm, Ulm, Germany		
Dulbecco's Modified Eagle Medium (DMEM), high glucose, GlutaMAX	ThermoScientific, Waltham, USA	10566016	
SEC-10LX Amplifier	npi electronic GmbH, Tamm, Germany	SEC-10LX	
EPC 9	HEKA Elektronik GmbH, Lambrecht, Germany		
Zeiss Axiovert 200	Zeiss, Oberkochen, Germany		

Low magnification Micromanipulator	Narashige, Tokyo, Japan	Nm-3	
High magnification, three-axis micromanipulator	Narashige, Tokyo, Japan	MHW-3	
Peristaltic perfusion pump	Multi Channel Systems, Reutlingen, Germany	PPS2	
2-channel temperature controller	Multi Channel Systems, Reutlingen, Germany	TCO02	
Square pulse stimulator	Natus Europe GmbH, Planegg, Germany	Grass SD9	
Glass capillaries	WPI, Sarasota, USA	1B150F-1	