

Materials List for:

Isolation of Atrial Cardiomyocytes from a Rat Model of Metabolic Syndrome-related Heart Failure with Preserved Ejection Fraction

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Materials

Name	Company	Catalog Number	Comments
ZSF-1 Obese rat	Charles River Laboratories, Inc.		21 weeks old
Fine Iris Scissors	Fine Science Tools GmbH	14094-11	
Surgical Scissors	Fine Science Tools GmbH	14001-18	
Micro Dressing Forceps (curved, serrated)	Aesculap, Inc.	BD312R	
Tissue Forceps (straight, 1 x 2 teeth)	Aesculap, Inc.	BD537R	
Tying Forceps (angled)	Aesculap, Inc.	MA624R	
Rodent and Small Animal Guillotine	Kent Scientific Corp.	DCAP	
Low Cost Induction Chamber 3.0 L	Kent Scientific Corp.	SOMNO-0730	
Butterfly Winged Infusion Set 21 G	Hospira, Inc.	181106101	
Abbocath 16 G	Hospira, Inc.	0G7149702	
Microlance Hypodermic Needle	Becton Dickinson GmbH	301300	modify needle to make cannula
Braun Original Perfusor Syringe 50 ml	B. Braun Melsungen AG	8728810F	
Braun Inject Solo Syringe 10 ml	B. Braun Melsungen AG	2057926	
Beaker 50ml	Duran Group (DWK Life Sciences GmbH)	21 106 17	
Duroplan petri dish (100 x 20 mm)	Duran Group (DWK Life Sciences GmbH)	21 755 48	
Seraflex Suture USP 3/0	SERAG-WIESSNER GmbH & Co. KG	IC208000	
VWR disposable Square Weighin Boats 100ml	VWR, Inc.	10803-148	
Styrofoam surface			
Sodium chloride	Sigma-Aldrich, Inc.	71380	
Potassium chloride	Sigma-Aldrich, Inc.	P4504	
Potassium phosphate monobasic	Sigma-Aldrich, Inc.	P5379	
Sodium phosphate dibasic	Sigma-Aldrich, Inc.	S0876	
Magnesium sulfate heptahydrate	Sigma-Aldrich, Inc.	230391	
Magnesium chloride	Sigma-Aldrich, Inc.	M8266	
HEPES	Sigma-Aldrich, Inc.	H3375	
Taurine	Sigma-Aldrich, Inc.	T0625	
Glucose	Sigma-Aldrich, Inc.	G7528	
2,3-Butanedione monoxime	Sigma-Aldrich, Inc.	B0753	

Calcium chloride solution (1 M)	Sigma-Aldrich, Inc.	21115	
Bovine Serum Albumin	Sigma-Aldrich, Inc.	A9647	
Liberase	Roche (Sigma-Aldrich, Inc.)	LIBTM-RO	
Heparin	Rotexmedica GmbH	3862357	
Forene (Isoflurane)	Abbvie Deutschland GmbH & Co. KG	10182054	
Laminin from Engelbreth-Holm-Swarm murine sarcoma basement membrane	Sigma-Aldrich, Inc.	L2020	
WillCo glass-bottom dish 500µl 0.005mm	WillCo Wells B.V.	HBST-3522	
Fluo4 AM	Invitrogen (Thermo Fisher Scientific, Inc.)	F14201	5µM for 20min at RT
Di-8-ANNEPS	Invitrogen (Thermo Fisher Scientific, Inc.)	D3167	10µM for 45 min at 37° C
Mitotracker RED FM	Invitrogen (Thermo Fisher Scientific, Inc.)	M22425	20nM for 30 min at 37° C
Jacketed reaction vessel 500 ml	Gebr. Rettberg GmbH	107024414	
Jacketed reaction vessel 1000 ml	Gebr. Rettberg GmbH	107025414	
Jacketed bubble trap	Gebr. Rettberg GmbH	134720001	
ED heating immersion circulator	Julabo GmbH	9116000	
Reglo Digital MS-2/6 peristaltic pump	Ismatec (Cole-Parmer GmbH)	ISM 831	
Voltcraft Thermometer 302 K/J	Conrad Electronic SE	030300546	
Tubing			
LSM 700 microscope	Carl Zeiss, Inc.		
ZEN 2.3 imaging software	Carl Zeiss, Inc.	410135-1011-240	
Single channel heater controller TC-324B	Warner Instruments, LLC	64-2400	
8 channel perfusion system	Warner Instruments, LLC	64-0185	
8 channel Multi-Line In-Line Solution Heaters	Warner Instruments, LLC	64-0105	