

Materials List for:

Evaluation of Vascular Control Mechanisms Utilizing Video Microscopy of Isolated Resistance Arteries of Rats

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Materials

Name	Company	Catalog Number	Comments
SS Rat	Medical College of Wisconsin	SS/JHsd/Mcwi strain	Contact Dr. Aron Geurts (ageurts@mcw.edu)
SS.5 ^{BN} Consomic Rat	Medical College of Wisconsin	SS-Chr 5 ^{BN} /Mcwi strain	Contact Dr. Aron Geurts (ageurts@mcw.edu)
SS.13 ^{BN} Consomic Rat	Medical College of Wisconsin	SS-Chr 13 ^{BN} /Mcwi strain	Contact Dr. Aron Geurts (ageurts@mcw.edu)
Ren1-BN Congenic Rat	Medical College of Wisconsin	SS.BN-(D13hmgc41-D13)hmgc23/Mcwi strain	Contact Dr. Aron Geurts (ageurts@mcw.edu)
Ren1-SSA Congenic Rat	Medical College of Wisconsin	SS.BN-(D13rat77-D13rat105/Mcwi strain	Contact Dr. Aron Geurts (ageurts@mcw.edu)
Ren1-SSB Congenic Rat	Medical College of Wisconsin	SS.BN-(D13rat124-D13rat101/Mcwi strain	Contact Dr. Aron Geurts (ageurts@mcw.edu)
Nrf2 ^(-/-) Knockout Rat and Wild Type Littermates	Medical College of Wisconsin	SD-Nfe212 ^{em1Mcwi} strain	Contact Dr. Aron Geurts (ageurts@mcw.edu)
Low Salt Rat Chow (0.4% NaCl)-AIN-76A	Dyets, Inc.	113755	
High Salt Rat Chow (4% NaCl)-AIN-76A	Dyets, Inc.	113756	
Colorado Video Caliper	Colorado Video, Inc.	Model 308	
Video Camera	Hitachi	KPM1AN	
Microscope	Olympus Life Science	CKX41	
Television Monitor	Panasonic	WVBM1410	
Pressure Transducers	Stoelting	56360	
Blood Pressure Display Unit	Stoelting	50115	
Cannulated Artery Chamber	Living Systems Instrumentation	CH-1	Single vessel chamber for general use
Temperature Controller for Single Chamber	Living Systems Instrumentation	TC-09S	
Gas Dispersion Tube, Miniature, Straight	Living Systems Instrumentation	GD-MS	Provides aeration in the vessel bath
Gas Exchange Oxygenator, Miniature	Living Systems Instrumentation	OX	Allows gas exchange with perfusate
Laser-Doppler Flowmeter	Perimed	PeriFlux 5000 LDPM	
GS1 Lectin	Vector Labs	RL-1102	

Glass Capillary Tubes for Micropipettes	Fredrich Haer Co.	27-33-1	2 mm ODX1 mm ID
Verticle Pipette Puller	David Kopf Instruments	Model 700C	
Nylon suture material (10/0)-3 PLY	Ashaway Line and Twine Manufacturing Co.	114-ANM-10	Single strands of 3 ply nylon suture teased out for use on vessels
Dumont #5 Forceps-Inox	Fine Science Tools	11254-20	
Vannas Scissors	Fine Science Tools	15003-08	
Protandim	Protandim		NRF2 Inducer: Contact Dr. Joe McCord (JOE.MCCORD@UCDENVER.EDU)
Sodium Chloride	Fisher Bioreagents	BP358-212	
Sodium Bicarbonate	Fisher Chemical	S233-3	
Dextrose (d-glucose) anhydrous	Fisher Chemical	D16-500	
Magnesium Sulfate (MgSO4-7H2O)	Sigma Aldrich	M1880-500 G	
Calcium Chloride (CaCl2-2 H2O)	Sigma	C5080-500G	
Sodium Phosphate-Monobasic (NaH2PO4)	Sigma	S0751-500G	
Potassium Chloride (KCl)	Fisher Chemical	P217-500G	
Ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA)	Sigma	ED255-500G	