

Materials List for:

Isolation of Microvascular Endothelial Tubes from Mouse Resistance Arteries

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Materials

Name	Company	Catalog Number	Comments
Sodium Chloride	Fisher	S642-212	
Potassium Chloride	Sigma	P9541	
Magnesium Sulfate	Sigma	M2643	
Calcium Chloride	Sigma	C1016	
Sodium Nitroprusside	Sigma	431451	
Bovine Serum Albumin	USB Products	9048-46-8	
Papain	Sigma	P-4762	
Collagenase	Sigma	C-8051	
Dithioerythritol	Sigma	D-8255	
Borosilicate Glass (Cannulation and Pinning Pipettes)	Warner Instruments	G150-4	
Borosilicate Glass (Trituration Pipettes)	World Precision Instruments	4897	
Nanoliter Injector Microsyringe	World Precision Instruments	B203MC4	Updated to Nanoliter 2010 from Nanoliter 2000
Micro4 Controller	World Precision Instruments	SYS-MICRO4	
12 mm x 75 mm Culture Tubes	Fisher	14-961-26	
3-Axis Micromanipulator	Siskiyou Corp	DT3-100	Holding and positioning the pinning pipettes
Flow Chamber	Warner Instruments	RC-27N	
100-1,000 µl Pipette	Eppendorf	3120000062	For transferring digested vessel segment to the flow chamber
1 ml Pipette Tips	Fisher	02-707-405	For transferring digested vessel segment to the flow chamber
Upright Microscope	Olympus	BX51W1	The actual microscope is up to the user
Spinning Disc Confocal System	Yokogawa	CSU-X1	Confocal imaging is optional
XR/TURBO EX Camera	Stanford Photonics	XR/TURBO EX	Ideal for our needs; may vary with user
Piper Control Software	Stanford Photonics		Imaging software for TURBO EX camera
Stereo Microscope	Leica	MZ8	may vary with user
Sylgard	Dow Corning	184	
Microdissection Scissors	Fine Science Tools	15003-08	
Dumont Forceps	Fine Science Tools	#5/45	
Minutiens Insect Pins	Austerlitz	M size 0.15 mm	
GP Millipore Express PLUS Membrane	Millipore	SCGPT05RE	

Pipette Scoring Device	Austin Flameworks	Small Handheld Scoring Tool	austinflameworks.com
Compact Pet Trimmer	Wahl Clipper Corp.	Model 9966	Clean well after each use to maintain life