

Materials List for:

Retrograde Perfusion and Filling of Mouse Coronary Vasculature as Preparation for Micro Computed Tomography Imaging

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Materials

Name	Company	Catalog Number	Comments
1 ml syringes	 BD Biosciences	BD-309602	
1/2cc insulin syringes with permanently attached 29G 1/2' needles	 BD Biosciences	BD-309306	
2" x 2" Gauze pads	Med101store.com	SKU 2208	
24G 3/4" Angiocath IV catheter	 BD Biosciences	BD-381112	
26G 1/2" gauge needles	 BD Biosciences	BD-305111	
Adenosine	 Sigma-Aldrich	A9251	1g/L in PBS for Vasodilation Buffer (with Papaverine)
Angled Graefe Forceps	 Fine Science Tools	11052-10	
Cotton-tipped applicators: 6" non-sterile	 Cardinal Health	C15055-006	
Curved Surgical Scissors	 Fine Science Tools	14085-09	
Dissecting stereoscope and light source	 Nikon Instruments	NA	NA
Dissecting Tray, 11.5 x 7.5 inches	 Cole-Parmer	YO-10915-12	Filled with tar for pinning down the mouse
Fine Curved Forceps	 Aesculap	FD281R	Need two
Heparin, 5000 U/ml stock	 APP Pharmaceuticals	NDC 63323-047-10	1:100 dilution in water
KCl	 Fisher Scientific	P217	Saturated solution in H2O
Ketamin (Ketaset), 100 mg/ml stock	Fort Dodge Animal Health	NDC 0856-2013-01	Mixed as 130 mg/kg body weight, with Xylazine in 0.9% saline
Microfil	 FlowTech	MV-122 (yellow). Other color options are also available.	Mix 1:1 by weight, with 10% by volume of curing agent. Prepare just before injection, and vortex to ensure it is well mixed
Non-sterile Suture: 6-0, braided silk	 Harvard Apparatus	723287	
Papaverine	 American Regent Inc.	NDC 0517-4010-01	4mg/L in PBS for Vasodilation Buffer (with Adenosine)
Paraformaldehyde	 Sigma-Aldrich	P6148	Prepared as 4% solution
Perfusion Apparatus			See figure 2
Spring Scissors	 Fine Science Tools	15018-10	

Xylazine (Anased), 20 mg/gl stock	 Lloyd, Inc.	NADA #139-236	Mixed as 8.8 mg/kg body weight, with Ketamin in 0.9% saline
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