

Tissue Preparation Techniques for Contrast-Enhanced Micro Computed Tomography Imaging of Large Mammalian Cardiac Models with Chronic Disease

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Materials

Name	Company	Catalog Number	Comments
10% neutral buffered formalin	Diapath	F0043	
Calcium chloride solution	Honeywell	21114	
Canulation Tubing PTFE	VWR	DENE3400102	
Constant Head 1L Reservoir	Harvard Apparatus	50-0496	
D-(+)-Glucose	Sigma	G5767	
Ethanol absolute	VWR	20821.330	
Ethylenediaminetetraacetic acid (EDTA)	Sigma	796881	
Heparin sodium (5000 U/mL)	Panpharma	3400891287301.	
Hexamethyldisilazane (HMDS)	Sigma	440191-1L	
Hydrochloric acid, ACS reagent, 37%	Sigma	258148	
Magnesium chloride solution	Honeywell	63020	
Phosphate buffered saline (PBS)	Sigma	P5368	
Phosphomolybdic acid hydrate	Fisher Scientific	417895000	
Potassium Chloride	Sigma	P5405	
Pump Tubing, 3-Stop	Ismatec	FV-96328-48	
SkyScan, 1276	Bruker		micro CT
Sodium bicarbonate	Sigma	S5761	
Sodium Chloride	Sigma	S3014	
Sodium hydroxide solution 50% in H ₂ O	Sigma	415413	

Tube Connector Kits	Harvard Apparatus	72-1407	
Tubing pump	Ismatec	ISM 1089	
Tubing Tygon R-3603 1.6 mm 3.2 mm 0.8 mm	VWR	228-1279	
Tubing Tygon R-3603 3.2 mm 4.8 mm 0.8 mm	VWR	228-1283	
Two-part single-use syringes 50 mL	Norm-Ject	4850001000	Pyrogen-free, PVC-free