

Materials List for

Imaging and Quantification of the Hepatic Vasculature of Mice Using Ultrafast Doppler Ultrasound

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Materials

Name	Company	Catalog Number	Comments
(Hydroxypropyl)methyl cellulose HPMC	Sigma-Aldrich	H7509	0.5% HPMC
Centrifuge ZentriMix 380 R	Hettich	3200	
Centrifuge Tubes 50 mL conical Sterile Polypropylene	CELLSTAR tubes	227 261	
Cotton tips	Meditip Clean	G80215	
Deionized water	in house		
Depilatory cream	nearby drugstore		
Dimethyl sulfoxide (DMSO)	Sigma	D2650-5X5ML	sterile
Ethanol absolute	FRESENIUS KABI	010-0622-1	
Feeding needle, reusable	FST Fine Science Tools	18064-20	
Forceps with fine tip Dumont #5 forceps	FST Fine Science Tools	11252-00	
Gauze pads 5 x 5 cm	Klinipress	175 004	
GraphPad Prism	GraphPad Software, Inc	Version 9	
GUI analysis script	Inserm	gui_analysis.m	needs a 10 ms Doppler scan
Heating pad 17 x 17 cm, 6 W	ThermoLux Acculux	461265	
Insulin syringe 30G 0.30 x 8 mm, 0.3 mL and 0.5 mL	BD Microfine + Demi	25636	
Ketamine Anesketin	Dechra	REG NL 111764	100 mg/mL
Kimwipes KIMTECH low-lint wiper	ULINE	S-8115	
Lab tape 19 mm x 50 m x 0.125 mm	Stokvis	M451	
MATLAB software	MathWorks	Version R2022b	
Moisturizing cream	nearby drugstore		
Needle yellow 30G 0.3 x 13 mm	BD Microlance	304000	

Ophthalmic ointment Oculentum Simplex	Added Pharma	220201	
Paper tissues	in house		
Permanent lab marker	VWR	52877-310	
Physiological salt solution (NaCl 0.9%)	FRESENIUS KABI	B102986	sterile
Sharps disposable container Medical Dispo 2.5 L	APmedical	UN3291	
Sterile safe-lock 1.5 mL tubes	Eppendorf	0030 120.086	
Syringe 1 mL	BD Plastipak	303172	
Syringe 20 mL Luer-Lok	BD Plastipak	300629	
Timer	West Bend	40053	
Trimmer	Exacta Aesculap	GT416	
Ultrafast ultrasound platform	Iconeus & INSERM 'Biomedical Ultrasound' ART	Iconeus One prototype	with a 10ms sequence
Ultrasound transmission gel Aquasonic 100	Parker Laboratories INC.	BT-025-0037N	
Water tank 3D printed 10 x 10 x 1.5 cm polymethylpentene (PMP) 0.125 mm	GoodFellow Cambridge limited	ME311100/2	CAD file upon request
Xylazine Sedamun	Dechra	REG NL 10084	20 mg/mL