

Materials List for

Advanced Abdominal Aortic Aneurysm Modeling in Mice by Combination of Topical Elastase and Oral β -aminopropionitrile

Jack Bontekoe¹, Gilbert Upchurch², Courtney Morgan¹, Bo Liu³

¹Division of Vascular Surgery, Department of Surgery, University of Wisconsin-Madison School of Medicine and Public Health ²Division of Vascular Surgery and Endovascular Therapy, University of Florida College of Medicine ³Department of Cell and Regenerative Biology, University of Wisconsin-Madison School of Medicine and Public Health

Corresponding Author

Jack Bontekoe
bontekoe@surgery.wisc.edu

Citation

Bontekoe, J., Upchurch, G., Morgan, C., Liu, B. Advanced Abdominal Aortic Aneurysm Modeling in Mice by Combination of Topical Elastase and Oral β -aminopropionitrile. *J. Vis. Exp.* (209), e66812, doi:10.3791/66812 (2024).

Date Published

July 26, 2024

DOI

10.3791/66812

URL

jove.com/video/66812

Materials

Name	Company	Catalog Number	Comments
0.5 L induction chamber	Kent Scientific Corporation	SOMNO-0530XXS	anesthesia induction chamber
0.9% sodium chloride injection, USP, 20 mL	Hospira	NDC 0409-4888-03	normal saline
3 mL syringe Luer-Lok Tip with BD PrecisionGlide Needle 22 G x 3/4	BD	REF 309569	syringe, 22 G needle
3-Aminopropionitrile Fumarate	TCI	A0796	BAPN
3-Aminopropionitrile Fumarate salt	Sigma-Aldrich	A3134-25G	BAPN
Avant Delux gauze sponges, 2" x 2" 4-Ply	Medline	NON26224	gauze sponges
Balding clipper	Whal Clipper Corporation	8110	hair clippers
betadine surgical scrub (povidone-iodine, 7.5%)	Avrio	NCD 67618-154-16	betadine surgical scrub
blunt forceps	ROBOZ	RS-5130	blunt forceps
Buprenorphine ER-lab	ZooPharm	BERLAB0.5	buprenorphine
carprofen	Norbrook	NDC 55529-131-11	carprofen
CASTROVIEJO 5.75" straight with lock	ROBOZ	RS-6412	Castroviejo needle driver
cotton tipped wood applicators, 6"	Dynarex	No. 4302	cotton tipped wood applicators
DESMARRES 5.5' retractor	ROBOZ	RS-6672	skin retractor
digital caliper, 0-150 mm	World Precision Instruments	501601	digital caliper
DPBS (1x)	Gibco	14190-144	DPBS
Elastase from porcine pancrease Type I	Sigma-Aldrich	E1250-10MG	elastase>4.0 units/mg protein
Ethanol 200 proof	Decon Labs, Inc	2701	ethanol diluted to 70%
eye lube	Optixcare	14716	eye lube
Germinator 500 dry sterilizer	CellPoint Scientific, Inc	5-1450	dry bead sterilizer

heat therapy mat	Adroit Medical Systems	V016	heat therapy mat
heat therapy pump	Adroit Medical Systems	HTP-1500	heat therapy pump
isoflurane, USP	Akorn Animal Health	NCD 59399-106-01	isoflurane
L-10 pipette	Rainin	LTS 0.5-10 uL	pipette
Low profile anesthesia mask, small	Kent Scientific Corporation	SOMNO-0801	anesthesia nose cone
micro dissector scissors	ROBOZ	RS-5619	micro dissector scissors
microscope	Leica	S9i	microscope
Nii-LED high intensity LED illuminatorLED external light	Nikon Instruments, Inc	83359 NII-LED	external dissection light
nylon 5-0 monofilament, black non-absorbable suture	Oasis	MV-661-V	5-0 nylon suture
polyisoprene surgical gloves, GAMMEX Non-Latex PI Micro, size 7.5	Ansell	20685975	non-latex surgical gloves
Reflex 7 mm stainless steel wound clips	CellPoint Scientific, Inc	203-1000	wound clips
scale	Ohaus	Compass CR2200	scale
Somnoflo Accessory Kit	Kent Scientific Corporation	10-8000-71	tubing for electronic vaporizer
SomnoFlo electronic vaporizer	Kent Scientific Corporation	SF2992	low-flow electronic vaporizer
SomnoPath Flow Diverter	Kent Scientific Corporation	SP1016	flow diverter for electronic vaporizer
SS/45 sharp forceps	ROBOZ	RS-4941	sharp forceps
surgical scissors	ROBOZ	RS-6010SC	surgical scissors
vessel forceps	Dumont	VES 0.35	vessel forceps