Materials List for:

Long-term Blood Pressure Measurement in Freely Moving Mice Using Telemetry

Mohammad Afaque Alam¹, Cory Parks¹, Salvatore Mancarella¹

¹Department of Physiology, University of Tennessee Health Sciences Center

Correspondence to: Salvatore Mancarella at smancare@uthsc.edu

URL: https://www.jove.com/video/53991

DOI: doi:10.3791/53991

Materials

Name	Company	Catalog Number	Comments
Small animal anesthesia system	Kent Scientific Corp, Torrington, Connecticut, USA		low-flow small animal anesthesia system
Pad warmer and mouse termometer	Kent Scientific Corp, Torrington, Connecticut, USA		allows monitoring body temperature, and homeothermic control in small animals
Binocular Microscope	Kent Scientific Corp, Torrington, Connecticut, USA	KSCXTS-1121	binocular body with boom stand pole and top LED
Hemostat Forceps	Kent Scientific Corp, Torrington, Connecticut, USA	INS750451	used to clamp blood vessels or tag sutures
Small metal Clips, 7 mm, Stainless Steel	Kent Scientific Corp, Torrington, Connecticut, USA	INS750344	used for skin closure
Betadine solution	Purdue Products L.P., Stamford, CT, USA	NDC-67618-150-01	10% povidone iodine topical solution
Normal saline solution	Abott Laboratories	04930-04-10	needed for preventing tissue from drying.
Nair (Hair remover lotion)			needed for fur removal from the site of incision/surgery
Braide silk suture	Teleflex Medical OEM, Coventry, Connecticut, USA		Size 5.0, 6.0, 7.0
Ethanol		2716	70% ethanol for disinfection
Spring scissors	Fine Science Tool	15000-10	for minor dissection
Scissors (angled to side)	Fine Science Tool	14063-011	No. 3 handle
Scalpel blade		2976-0	No. 10
Forceps (curved)	Fine Science Tool	11150-10	for holding tissue
Forceps (straight)	Fine Science Tool	11151-10	for holding tissue
Needle holder	Fine Science Tool	12002-12	for suturing
Fine needle nose Forceps	Fine Science Tool		
Isoflurane	Henry Schein Animal Health, Melville, New York, USA		a general inhalation anesthetic agent
Sterilizer	Benchmark Scientific, 116 Corporate Blvd, South Plainfield, NJ, USA	B1000	sterilize surgical tools in 5-10 seconds using infrared heating
Gauze Pads	Johnson & Johnson, New Brunswick, NJ, USA	JJ8513	to use for wound cleaning, prepping, scrubbing or dressing
Telemetry Device	Data Sciences International, St. Paul, MN, USA	DSI-PA-C10	to record blood pressure in freely moving mice
Telemetry receiver system coumpled with a PC	Data Sciences International, St. Paul, MN, USA		
Tubing	Instech Laboratories, Plymouth Meeting, PA USA	BTPE-90	



Vessel Cannulation Forceps, 13 cm, 0.5 mm OD	World Precision Instruments	503374	special vessel cannulation forceps
Tissue adhesive	3M Animal Care Products, St. Paul, MN, USA	NAC No.: 11380041	use to close minor wounds, often eliminating the need for sutures and/or bandages
Weighing scale		BB300	precision analytical laboratory balance