

Materials List for:

Simultaneous Video-EEG-ECG Monitoring to Identify Neurocardiac Dysfunction in Mouse Models of Epilepsy

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Materials

Name	Company	Catalog Number	Comments
VistaVision stereozoom dissecting microscope	VWR		
Dolan-Jenner MI-150 microscopy illuminator, with ring light	VWR	MI-150RL	
CS Series scale	Ohaus	CS200	for weighing animal
T/Pump professional	Stryker		recirculating water heat pad system
Ideal Micro Drill	Roboz Surgical Instruments	RS-6300	
Ideal Micro Drill Burr Set	Cell Point Scientific	60-1000	only need the 0.8-mm size
electric trimmer	Wahl	9962	mini clipper
tabletop vise	Eclipse Tools	PD-372	PD-372 Mini-tabletop suction vise
fine scissors	Fine Science Tools	14058-11	ToughCut, Straight, Sharp/Sharp, 11.5 cm
Crile-Wood needle holder	Fine Science Tools	12003-15	Straight, Serrated, 15 cm, with lock - For applying wound clips
Dumont #7 forceps	Fine Science Tools	11297-00	Standard Tips, Curved, Dumostar, 11.5 cm
Adson forceps	Fine Science Tools	11006-12	Serrated, Straight, 12 cm
Olsen-Hegar needle holder with suture cutter	Fine Science Tools	12002-12	Straight, Serrated, 12 cm, with lock
scalpel handle #3	Fine Science Tools	10003-12	
surgical blades #15	Havel's	FHS15	
6-0 surgical suture	Unify	S-N618R13	non-absorbable, monofilament, black
gauze sponges	Coviden	2346	12 ply, 7.6 cm x 7.6 cm
cotton-tipped swabs	Constix	SC-9	15.2-cm total length
super glue	Loctite	LOC1364076	gel control
Michel wound clips, 7.5mm	Kent Scientific	INS700750	
polycarboxylate dental cement kit	Prime-dent	010-036	Type 1 fine grain
tuberculin syringe	BD	309623	
polyethylene tubing	Intramedic	427431	PE160, 1.143 mm (ID) x 1.575 mm (OD)
chlorhexidine	Sigma-Aldrich	C9394	
ethanol	Sigma-Aldrich	E7023-500ML	
Puralube vet ointment	Dechra Veterinary Products		ophthalmic eye ointment

mouse anesthetic cocktail			Ketamine (80 mg/kg), Xylazine (10 mg/kg), and Acepromazine (1 mg/kg)
carprofen			Rimadyl (trade name)
HydroGel	ClearH20	70-01-5022	hydrating gel; 56-g cups
Ponemah software	Data Sciences International		data acquisition and analysis software; version 5.2 or greater with Electrocardiogram Module
7700 Digital Signal conditioner	Data Sciences International		
12 Channel Isolated Bio-potential Pod	Data Sciences International		
fish tank	Topfin		for use as recording chamber; 20.8 gallon aquarium; 40.8 cm (L) X 21.3 cm (W) X 25.5 cm (H)
Digital Communication Module (DCOM)	Data Sciences International	13-7715-70	
12 Channel Isolated Bio-potential Pod	Data Sciences International	12-7770-BIO12	
serial link cable	Data Sciences International	J03557-20	connects DCOM to bio-potential pod
Acquisition Interface (ACQ-7700USB)	Data Sciences International	PNM-P3P-7002	
network video camera	Axis Communications		P1343, day/night capability
8-Port Gigabit Smart Switch	Cisco	SG200-08	8-port gigabit ethernet switch with 4 power over ethernet supported ports (Cisco Small Business 200 Series)
10-pin male nanoconnector with guide post hole	Omnetics	NPS-10-WD-30.0-C-G	electrode for implantation on the mouse head
10-socket female nanoconnector with guide post	Omnetics	NSS-10-WD-2.0-C-G	connector for electrode implant
1.5-mm female touchproof connector cables	PlasticsOne	441	1 signal, gold-plated; for connecting the wiring from the head-mount implant to the bio-potential pod
soldering iron	Weller	WESD51 BUNDLE	digital soldering station
solder	Bernzomatic	327797	lead free, silver bearing, acid flux core solder
heat shrink tubing	URBEST		collection of tubing with 1.5- to 10-mm internal diameters
heat gun	Dewalt	D26960	
mounting tape (double-sided)	3M Scotch	MMM114	114/DC Heavy Duty Mounting Tape, 2.54 cm x 1.27 m
desktop computer	Dell		recommended minimum requirements: 3rd Gen Intel Core i7-3770 processor with HD4000 graphics; 4 GB RAM, 1 GB AMD Radeon HD 7570 video card; 1 TB hard drive; Windows 7 OS
permanent marker	Sharpie	37001	black color, ultra fine point
toothpicks			for mixing and applying the polycarboxylate dental cement
LabChart Pro software	ADInstruments		power spectrum software; version 8.1.3 or greater
Kubios HRV software	Univ. of Eastern Finland		HRV analysis software; version 2.2

Notepad	Microsoft		simple text editor software
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