

Materials List for

Long-Term Imaging of Identified Neural Populations using Microprisms in Freely Moving and Head-Fixed Animals

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jove.com/video/65387

Materials

Name	Company	Catalog Number	Comments
0.9% Sodium Chloride solution for infusion (Vetivex 11) 250ml	Dechra	20091607	Saline for hydration and drug reconstitution
18004-1 Trepine 1.8mm diameter bur	FST	18004-18	Drill bit
1ml syringe	Terumo	MDSS01SE	1ml syringe
23G x 5/8 inch 6% LUER needle	Terumo	NN-2316R	23G needle
71000 Automated stereotaxic apparatus w/ built-in software	RWD	-	RWD
Absorbable Haemostatic Gelatin Sponge (10x10x10mm)	Surgispon	SSP-101010	gel-foam
Alcohol pads 70% isopropyl alcohol	Braun	9160612	Alcohol pads
Aluminium foil	Any retailer	-	Foil to cover eyes during surgery
Artificial Cerebrospinal Fluid	Tocris Bioscience a Bio-Techne Brand	3525/25ML	ACSF
Automated microinjection pump	WPI	8091	
Betadine solution (10% iodinated Povidone) 500ml	Videne/Ecolab	3030440	Betadine
Bruker Ultime 2Pplus (customised)	Bruker	-	Two-photon imaging system
Cardiff Aldasorber	Vet-Tech	AN006	Anaesthesia absorber
CFI S Plan Fluor ELWD ADM 20XC	Nikon	MRH48230	20x objective lens
Compact Anaesthesia system - single gas - isoflurane K/F, with oxygen concentrator model: ZY-5AC and scavenging unit	Vet-Tech	AN001	Compact anaesthesia system
Contec Prochlor	Aston Pharma	AP2111L1	Disinfectant (hypochlorous acid)
Dexamethasone Sodium Phosphate Injection, USP, 4mg/ml, NDC: 0641-6145-25	Hikma	Covetrus:70789	Dexamethasone
Dissecting Knife, cutting edge 4mm, thickness 0.5mm, stainless steel	Fine Science Tools	10055-12	Knife for incision of cortex
Dual-Sided, Non-Puncture Mouse & Neonatal Rat Ear Bars	Stoelting	51649	Ear bar

Dummy microscope	Inscopix	Dummy microscope	To help with implantation
Ethanol (100%)	VWR	40-1712-25	Used to make 70% ethanol
Fisherbrand Nitrile Indigo Disposable Gloves PPE Cat III	FischerScientific	17182182	Gloves
Homeothermic Monitor 50-7222-F	Harvard Apparatus	50-7222-F	Homeothermic monitoring system/ heating pad
Image processing software	ImageJ	-	Image processing software
Inscopix Data Processing Software (IDPS)	Inscopix	-	One-photon calcium imaging processing software
Insight Duals-232, S/N 2043	InSight	Insight Spectra X3	Two-photon imaging laser
IsoFlo 250ml 100% w/w inhalation	Zoetis	WM 42058/4195	Isoflurane
Kwik-Sil Low Toxicity Silicone Adhesive	World Precision Instruments (WPI)	KWIK-SIL	Silicone adhesive
MICROMOT mains adapter NG 2/S, w/ Drill unit 60/E	PROXXON	NO 28 515	Handheld drill
nVoke Integrated Imaging and Optogenetics System package	Inscopix	-	One-photon Imaging system and software
ProView Implant Kit	Inscopix	ProView Implant Kit	Dummy microscope, stereotaxic arm and attachment
ProView Prism Probe	Inscopix	1050-002203	Microprism lens
Rimadyl (50mg/ml)	Zoetis	VM 42058/4123	Carprofen
Stereotaxis Microscope on Articulated arm with table clamp	WPI	PZMTIII-AAC	Microscope
Super-Bond Universal kit, SUN Medical	Prestige-Dental	K058E	Adhesive cement
Two-photon calcium image software	Suite2P	-	Two-photon calcium imaging processing software
Vapouriser	Vet-Tech	-	Isoflurane vapouriser
Xailin Lubricating Eye Ointment 5g	Xailin-Night	MLG/28/1551	Ophthalmic ointment