

Materials List for:

Construction of Microdrive Arrays for Chronic Neural Recordings in Awake Behaving Mice

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URL: <https://www.jove.com/video/50470>

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Materials

Name	Company	Catalog Number	Comments
0.0005" (12.5 µM) diameter Platinum-Iridium wire	California Fine Wire	CFW#100-167	HML VG insulated www.calfinewire.com
0.002" (50 µM) diameter Stableohm 675 wire	California Fine Wire	CFW# 100-188	HML insulated Ni-Cr
polyamide tubing	Polymicro Technologies	1068150020	99 micron I.D., 166 micron O.D. www.polymicro.com
brass guides	World Plastics Inc		3.3 x 6.6 mm
Delrin blocks	World Plastics Inc		3.13 x 2.5 mm
Fillister head brass screws	J.I. Morris Co.	00-90 x 1/2	drive screw www.jimorrisco.com
hex brass nuts	J.I. Morris Co.	00-90	
Fillister head brass screws	J.I. Morris Co.	000-120 x 3/32	EIB mount and ground screw
plexiglass acrylic	Canal Street Plastics		5 mm thick, clear, www.cpcnyc.com
cianoacrylate	Krazy Glue		2 g tube
electronic interface board	Neuralynx	EIB-18	www.neuralynx.com
non-cyanide gold solution	SIFCO	SIFCO 5355	www.sifcoasc.com
VersaDrive 4	Neuralynx		four tetrode model
tetrode assembly station	Neuralynx		
motorized tetrode spinner	Neuralynx	tetrode spinner 2.0	
VersaDrive jig	Neuralynx		
soldering iron	Radio Shack	64-2802B	www.radioshack.com
nanoZ	Neuralynx		
small bit drill/driver	Ram Products	Rampower 35	with footpedal controller, www.ramprodinc.com
drill bits	Small Parts, Inc.		3/32" bits, www.smallpartsinc.com
dissecting microscope	Olympus	SZ-60	www.olympusamerica.com
heat gun	Alphawire	Fit gun 3	use setting "1" only, www.alphawire.com
26 AWG copper wire	Arcor Electronics	F26	for ground wires, www.arcorelectronics.com
soldering flux	Eagle	2 oz, #205	
0.02" diameter solder	Kester	24-6337-0010	www.kester.com
benchtop vise	Vacu-Vise	Model 300	
fiber optic light	Nikon	MKII	dual light arms, www.nikon.com
5-min epoxy	Allied Electronics		25 ml, www.alliedelec.com

fine tweezers	Roboz Surgical Instrument Co.	RS-4907, RS-5010	INOX material, www.roboz.com
micro dissecting scissors	Roboz Surgical Instrument Co.	RS-5880	

Table 1. Materials and reagents used for constructing tetrodes and microdrives.