

Materials List for:

Single Sensillum Recordings in the Insects *Drosophila melanogaster* and *Anopheles gambiae*

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URL: <https://www.jove.com/video/1725>

DOI: [doi:10.3791/1725](https://doi.org/10.3791/1725)

Materials

Name	Type	Company	Catalog Number	Comments
Paraffin oil	Odors	Fluka	76235	
High purity odors (>98%)	Odors	Sigma-Aldrich		Methyl acetate #296996 1-octen-3-ol #74950
Filter paper strips	Odors	Fisher Scientific	05-714-1	Chromatography paper
Connectors	Odors	Cole-Parmer	EW-06365-40	1/16x1/8"
Glass vials	Odors	Agilent Technologies	5182-0556	
Air line plastic tubing	Odor Delivery	Python Products	500PAL	
1 serological pipette	Odor Delivery	Corning	4101	10 mL
Plastic tubing	Odor Delivery	Cole-Parmer	EW-06418-0	0.050"x0.090"OD
Disposable borosilicate glass Pasteur pipettes	Odor Delivery	Fisher Scientific	13-678-20A	5-3/4 inches
Programmable stimulus controller	Odor Delivery	Syntech	CS-55	
Anti-vibration table	Electrophysiology Equipment	TMC	63533	36"Wx30"Dx29"H
Faraday cage	Electrophysiology Equipment	TMC	MI8133303	
Inverted microscope	Electrophysiology Equipment	Nikon Instruments	E600FN ECLIPSE	Recording microscope
10x and 100x objectives	Electrophysiology Equipment	Nikon Instruments	10x Plan Fluor 100x L Plan	
Dissecting microscope	Electrophysiology Equipment	Nikon Instruments	EZ645	electrode sharpening/insect prep microscope
Magnetic stands	Electrophysiology Equipment	Newport Corp.	MODEL 150	
IDAC	Electrophysiology Equipment	Syntech	IDAC-4	
Acquisition software	Electrophysiology Equipment	Syntech	Autospike	
1 macromanipulator	Electrophysiology Equipment	Narishige International	MN-151	Joystick manipulator Used for positioning reference electrode
1 micromanipulator	Electrophysiology Equipment	EXFO	PCS-6000	Used for positioning recording electrode
Crocodile clip	Electrophysiology Equipment	Pomona	AL-B-12-0	
Electric cable	Electrophysiology Equipment	Pomona	B-36-0	Test Cable Assembly

2 electrode holders	Electrophysiology Equipment	Syntech	N/A	Electrode holders (set of 2) for tungsten wire electrode
AC probe	Electrophysiology Equipment	Syntech	N/A	Universal single ended probe (10xAC)
Tungsten electrodes	Electrophysiology Equipment	Microprobes	M210	straight tungsten rods, 0.005x3
Potassium hydroxide	Electrophysiology Equipment	Sigma-Aldrich	221473	
Syringe	Electrophysiology Equipment	BD Biosciences	301625	20 mL
Power supply	Electrophysiology Equipment	Wild Heerbrugg	e.g MTR32	
Vertical puller	Insect prep	Narishige International	PB-7	
Razor blade	Insect prep	VWR international	55411-050	
Dental wax	Insect prep	Patterson	091-1503	
Microscope slide	Insect prep	Fisher Scientific	12-550A	
Cover glass	Insect prep	Fisher Scientific	12-541A	18X18 #1.5
Polypropylene mesh	Insect prep	Small Parts, Inc.	CMP-0500-B	
Glass electrode	Insect prep	Frederick Haer and Co.	27-32-0-075	Capillary tubing borosilicate 1.5mm OD x 1.12mm ID x 75 mm
Double-sided tape (3M)	Insect prep	3M	MMM6652P3436	Double-sided tape (3M)
Forceps	Insect prep	Fine Science Tools	021x0053	Dumont #5 Mirror Finish Forceps
Small plastic cup	Insect prep	VWR international	89009-662	7 x 5.7 (23/4 x 21/4)
Electric aspirator	Insect prep	Gempler's	RHM200	