

Materials List for:

Neural Circuit Recording from an Intact Cockroach Nervous System

Josh S. Titlow¹, Zana R. Majeed^{1,2}, H. Bernard Hartman³, Ellen Burns¹, Robin L. Cooper¹

¹Department of Biology, University of Kentucky

²Department of Biology, University of Salahaddin

³Oregon Institute of Marine Biology, University of Oregon

Correspondence to: Robin L. Cooper at RLCOOP1@email.uky.edu

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Materials

Name	Company	Catalog Number	Comments
Reagent			
Sylgard	Dow Corning	182 silicone kit	182 silicone elastomer kit
NaCl	Sigma-Aldrich	S7653	
KCl	Sigma-Aldrich	P9333	
CaCl ₂	Sigma-Aldrich	C5670	
NaH ₂ PO ₄ •2H ₂ O	Sigma-Aldrich	71505	
Na ₂ HPO ₄ •7H ₂ O	Sigma-Aldrich	S9390	
NaOH	Sigma-Aldrich	221465	To adjust pH
HCl	Sigma-Aldrich	H1758	To adjust pH
Material Name			
Dissecting tools	World Precision Instruments	assortment	
Insect Pins	Fine Science Tools, Inc	26001-60	
Dissecting microscope	World Precision Instruments	PZMIII-BS	
Glass electrodes	Sigma-Aldrich	CLS7095B5X	Box of 200, suction electrodes
Micromanipulator	World Precision Instruments	MD4-M3-R	Can fix for base or on a metal rod
Silver wire (10/1,000 inch)	A-M Systems	782500	
Computer	any company		
AC/DC differential amplifier	A-M Systems	Model 3000	
PowerLab 26T	 AD Instruments	27T	
Head stage	 AD Instruments		Comes with AC/DC amplifier
LabChart7	 AD Instruments		
Electrical leads	any company		
Glass tools	make yourself		For manipulating nerves
Cable and connectors	any company		
Pipettes with bulbs	Fisher Scientific	13-711-7	Box of 500
Beakers	any company		
Wax or modeling clay	any company or local stores		
Stimulator	Grass Instruments	SD9 or S88	
Plastic tip for suction electrode	local hardware store (Watt's brand)	¼ inch OD x 0.170 inch ID	Cut in small pieces. Pull out over a flame and cut back the tip to the correct size.