

Materials List for:

# Membrane Potential Dye Imaging of Ventromedial Hypothalamus Neurons From Adult Mice to Study Glucose Sensing

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## Materials

Name	Company	Catalog Number	Comments
Neurobasal-A Medium (Custom)	Invitrogen	0050128DJ	custom made glucose free
Hibernate-A Medium (Custom)	BrainBits		custom made glucose free
Penicillin streptomycin (20,000 U/ml)	Invitrogen	15140	other vendors acceptable
Stericup vacuum filter units (0.22 µm)	Millipore		other vendors acceptable
25 mm Glass coverslips	Warner	#1 25mm round	
18 mm Glass coverslips	Warner	#1 18mm round	
GlutaMAX	Invitrogen	35050	
B27 minus insulin (50x)	Invitrogen	0050129SA	
Razor blade	VWR	55411	
Vibratome & cooling chamber	Vibratome	Series 1000 Sectioning system	
Vibratome blades	Polysciences	22370	injector or double edge blades from other vendors acceptable
Papain, suspension	Worthington	LS003124	
BSA, suitable for cell culture	Sigma		other vendor acceptable
DNase, for cell culture	Invitrogen		other vendor acceptable
cloning cylinders, 6 mm x 8 mm	Bellco Glass	2090-00608	
Membrane Potential Dye (blue)	Molecular Devices	R8042	
In-line heater	Warner	SF-28	
Syringe pumps	WPI	sp100i	other vendor acceptable
Closed chamber	Warner	RC-43C	
Polyethylene tubing	Warner	PE-90	
Metamorph	Molecular Devices		alternate image analysis software acceptable
Microscope	Olympus	BX61 WI	used with 10X objective
Camera	Photometrics	Cool Snap HQ	
Narrow Cy3 Filter Set	Chroma	41007a	
Illumination System	Sutter Instruments	Lambda DG-4	