

Materials List for:

Reconstitution of a Transmembrane Protein, the Voltage-gated Ion Channel, KvAP, into Giant Unilamellar Vesicles for Microscopy and Patch Clamp Studies

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Materials

Name	Company	Catalog Number	Comments
DPhPC (1,2-diphytanoyl- <i>sn</i> -glycero-3-phosphocholine)	Avanti Polar Lipids	850356P	
Egg PC L- α -phosphatidylcholine (Egg, Chicken)	Avanti Polar Lipids	840051P	
Egg PA L- α -phosphatidic acid (Egg, Chicken)	Avanti Polar Lipids	840101P	
18:1 (Δ 9- <i>cis</i>) PC (DOPC) 1,2-dioleoyl- <i>sn</i> -glycero-3-phosphocholine	Avanti Polar Lipids	850375P	
Cholesterol (ovine wool,>98%)	Avanti Polar Lipids	700000P	
TRed-DHPE	Invitrogen	T-1395MP	labeled lipid
BPTR-Ceramide	Invitrogen	D-7540	labeled lipid
Choloroform	VWR	22711.290	AnalaR Normapur
Acetone	VWR	20066.296	AnalaR Normapur
Ethanol	VWR	20821.330	AnalaR Normapur
Kimwipe	Kimtech	7552	
Hamilton syringes	Hamilton Bonaduz AG		diverse
Amber vials and Teflon cups	Sigma	SU860083 and SU860076	
Parafilm	VWR	291-1214	
Microcentrifuge tube	Eppendorf		diverse
Agarose	Euromex	LM3 (1670-B, Tg 25.7C, Tm 64C)	
Sucrose	Sigma	84097-1kg	
Glucose	Sigma	G8270-1kg	
Trehalose	Sigma	T9531-25G	
KCl	Sigma	P9333-1kg	
Hepes	Sigma	H3375-100G	
TRIS	Euromex	EU0011-A	
Osmometer	Wescor	Vapro	
pH meter	Schott instruments	Lab850	
Sonicator	Elmasonic	S 180 H	
Syringe filter 0.2 μ m	Sartorius steim	Minisart 16532	
Function generator	TTi	TG315	
Platinum wires	Goodfellow	LS413074	99.99+%, d = 0.5 mm

Polytetrafluoroethylene	Goodfellow		
Dow Corning 'high vacuum grease'	VWR	1597418	
sealing paste	Vitrex medical A/S, Denmark	REF 140014	Sigillum Wax
Cover slides 22 x 40 mm No1.5	VWR	631-0136	
Cover slides 22 x 22 mm No1.5	VWR	631-0125	
Plasma cleaner	Harrick	PDC-32G	airplasma, setting 'high'
Petri dishes	Falcon BD	REF 353001	3.5 cm x 1 cm
patch clamp amplifier	Axon instruments	Multiclamp700B	
DAQ Card	National Instruments	PCI-6221	
Labview	National Instruments	version 8.6	
Glass pipettes boro silicate OD 1 mm ID 0.58 mm	Harvard Apparatus	GC100-15	
Electrode holder	Warner Instruments	Q45W-T10P	
Micromanipulator	Sutter	MP-285	
Pipette puller	Sutter	P-2000	
Camera	ProSilica	GC1380	
Zeiss microscope	Zeiss	Axiovert 135	
Objective	Zeiss		40X long working distance, Phase contrast
Objective	Zeiss		100X Plan-Apochromat NA 1.3
Filterset GFP (for Alexa-488)	Horiba	XF100-3	
Filterset Cy3 (for TexasRed)	Horiba	XF101-2	
beta-casein	Sigma	C6905-1G	
Confocal microscope	Nikon Eclipse TE 2000-E		D-Eclipse C1 confocal head
Objective	Nikon		Plan Fluor 100X NA 1.3
Matlab	Mathworks		for image processing and analysis of the current traces