

Materials List for

Reconstitution of Membrane-tethered Minimal Actin Cortices on Supported Lipid Bilayers

Darius Vasco Köster¹, Abrar Bhat², Sankarshan Talluri², Satyajit Mayor²

¹Centre for Mechanochemical Cell Biology and Division of Biomedical Sciences, Warwick Medical School, University of Warwick ²National Centre for Biological Sciences, Tata Institute of Fundamental Research

Corresponding Authors

Darius Vasco Köster
d.koester@warwick.ac.uk

Satyajit Mayor
mayor@ncbs.res.in

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jove.com/video/63968

Materials

Name	Company	Catalog Number	Comments
1,2 dipalmitoyl-sn-glycero-3-phosphoethanolamine-N- (lissamine rhodamine B sulfonyl)	Avanti Polar Lipids	810158	16:0 RhoPE
1,2-dioleoyl-sn-glycero-3- [(N-(5-amino-1 carboxypentyl) iminodiacetic acid) succinyl] (nickel salt)	Avanti Polar Lipids	790404	DGS-NTA-Ni ²⁺
1,2-dioleoyl-sn-glycero-3-phosphocholine	Avanti Polar Lipids	850375	DOPC
1,2-dipalmitoyl-sn-glycero-3-phosphocholine	Avanti Polar Lipids	850355	DPPC
Amber glass vials	ThermoFisher	B7990-2A	
ATP disodium salt	Sigma Aldrich	A26209	
Attofluor cell chamber	ThermoFisher	A7816	
Bath sonicator	GT Sonic	1860QTS	
beta-casein	Sigma Aldrich	C6905	
CaCl ₂	ThermoFisher	12135	
chloroform	Sigma Aldrich	650471	alternatively from Electron Microscopy Sciences, 50980296
Cover slips, #1, 25 mm diameter, Gold Seal	Harvard Apparatus	64-0705B	
Cover slips, #1, 40x22 mm, Gold Seal	ThermoFisher	48404-031	
EDTA	ThermoFisher	G12635	
EGTA	Himedia	MB130	
Gas tight glass syringes, with removebla needle, blunt, volumes 10 µL, 100 µL, 500 µL	Hammilton	1700 series	
Hellmanex III	Hellma Analytics	Z805939	cleaning solution
HEPES	Himedia	RM380	
KaH ₂ PO ₄	ThermoFisher	G13405	

KCl	ThermoFisher	G13305	
KOH	ThermoFisher	G26708	
Lipid extruder	Avanti Polar Lipids	61000-1EA	
MgCl ₂	ThermoFisher	G15535	
Microtip sonicator	Sonics	VC750	3 mm Tip diameter
Na ₂ CO ₃	ThermoFisher	G15955	
NaCl	Himedia	GRM853	
NaH ₂ PO ₄	ThermoFisher	G15825	
NaOH	ThermoFisher	G27815	
Nikon Ti Eclipse TIRF microscope	Nikon		With a TIRF unit connected through a polarization-conserving optical fibre to an Agilent monolithic laser combiner MLC400 with multiple laser lines with a 100X, 1.45 NA Nikon Oil Objective with two 512 x 512-pixel EMCCD cameras (Photometrics Evolve 512) with a 100X, 1.45 NA Nikon Oil Objective with two 512 x 512-pixel EMCCD cameras (Photometrics Evolve 512)
NOA88	Norland Products	8801	
PTFE Coated Tweezer Style #2A	Structure Probe	0S2AT-XD	
Refrigerated microcentrifuge	Eppendorf	5424R	
Sucrose	ThermoFisher	G15925	
UV-illuminator	Novascan	PSD PRO-UV	needs vacuum and O ₂ supply