

Materials List for

A Model Membrane Platform for Reconstituting Mitochondrial Membrane Dynamics

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jove.com/video/61620

Materials

Name	Company	Catalog Number	Comments
1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(Cyanine 5)	Avanti polar lipid	Cat #: 810335C1mg	membrane fluorescent markers
1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-[methoxy(polyethylene glycol)-2000] (ammonium salt)	Avanti Polar lipids	Cat #: 880130P	lipid molecules
1',3'-bis[1,2-dioleoyl-sn-glycero-3-phospho]-glycerol (sodium salt)	Avanti Polar lipids	Cat #: 710335P	lipid molecules
18:1 ($\Delta 9$ -Cis) PC (DOPC)	Avanti Polar lipids	Cat #: 850375P	lipid molecules
1-palmitoyl-2-oleoyl-sn-glycero-3-phosphoethanolamine	Avanti Polar lipids	Cat #: 850757P	lipid molecules
Alexa Fluor 488 Antibody Labeling Kit	ThermoFisher Scientific	A20181	
Amber vial with PTFE liner	Fisher scientific	14-955-332	sample vials to keep lipid solutions
Calcein	Sigma-Aldrich	Cat #: C0875; PubChem Substance ID: 24892279	fluorescent dye
Chloroform	Fisher scientific	298-500/ C295-4	Fisher brand Chloroform is usually quite reliable for lipid works.
Concavity slide (1 well)	Electron Microscopy Science	71878-05	applied as Schaefer Slide
FCS analysis tool	Smith Lab, University of Akron		software tool
Fiji /ImageJ	Fiji	SCR_002285	software tool
Fisherbrand Cover Glasses: Circles	Fisher scientific	12-545-102	Cover glass for solid supported lipid bilayers, the item is now discontinued as authors prepared the manuscript. An alternative is Fisher brand premium cover glass with catalog number: 12-548-5M
GTP Disodium salt	SIGMA-ALDRICH INC	Cat #: 10106399001	
Langmuir & Langmuir-Blodgett Trough	Biolin Scientific	KN2002	
L- α -lysophosphatidylinositol (Liver, Bovine) (sodium salt)	Avanti Polar lipids	Cat #: 850091P	lipid molecules
Mini Extruder	Avanti Polar lipids	610020	

n-Dodecyl- β -D-Maltopyranoside	Anatrace	Cat #: D310 25 GM	surfactant for reconstitution
n-Octyl- α -D-Glucopyranoside	Anatrace	Cat #: O311HA 25 GM	surfactant for reconstitution
PC Membranes 0.2 μ m	Avanti Polar Lipids	610006	
Rabbit Anti-Opa1 antibody	NOVUS BIOLOGICALS	Cat #: NBP2-59770	antibody for Opa1 C-terminal detection
Slidebook	Intelligent imaging	RRID: SCR_014300	software tool
Teflon threaded seal tape	Fisher Scientific	NC0636085	taflon tape for sample storage
Texas Red 1,2-Dihexadecanoyl-sn-Glycero-3-Phosphoethanolamine, Triethylammonium Salt (Texas Red DHPE)	ThermoFisher Scientific	Cat #: T1395MP	membrane fluorescent markers