

Materials List for

A Nanobar-Supported Lipid Bilayer System for the Study of Membrane Curvature Sensing Proteins *in vitro*

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Materials

Name	Company	Catalog Number	Comments
Anhydrous Ethanol	Sigma-Aldrich	100983	
Aluminum foil	Diamond	RN0879999FU	
Amber Vial	Sigma-Aldrich	27115-U	
Brain PS: L- α -phosphatidylserine (Brain, Porcine) (sodium salt)	Avanti Polar Lipids, Inc.	840032	
10 mL Beaker	Schott-Duran	SCOT211060804	
50 mL Beaker	Schott-Duran	SCOT211061706	
1000 mL Beaker	Schott-Duran	SCOT211065408	The second container
Chloroform	Sigma-Aldrich	V800117	
Cotton buds	Watsons		
18:1 DGS-NTA(Ni): 1,2-dioleoyl-sn-glycero-3-[(N-(5-amino-1-carboxypentyl)iminodiacetic acid)succinyl] (nickel salt)	Avanti Polar Lipids, Inc.	790404	
Egg PC: L- α -phosphatidylcholine (Egg, Chicken)	Avanti Polar Lipids, Inc.	840051	
F-BAR	Protein Production Platform, School of Biological Sciences, Nanyang Technological University, Singapore		Proteins and peptide
F-BAR+IDR	Protein Production Platform, School of Biological Sciences, Nanyang Technological University, Singapore		Proteins and peptide
GFP	Protein Production Platform, School of Biological Sciences, Nanyang Technological University, Singapore		Proteins and peptide
GFP-His	Protein Production Platform, School of Biological Sciences, Nanyang Technological University, Singapore		Proteins and peptide
GraphPad Prism	GraphPad	V9.0.0	

Hydrogen Peroxide, 30% (Certified ACS)	Thermo Scientific	H325-500	
IDR from human FBP17	Sangon Biotech (Shanghai) Co., Ltd.		
ImageJ	National Institutes of Health	1.50d	
Laser Scanning Confocal Microscopy	Zeiss	LSM 800 with Airyscan	100x (N.A.1.4) oil objective.
Methanol	Fisher scientific	10010240	
Mini-extuder	Avanti Polar Lipids, Inc.	610000-1EA	
1.5 mL Microtubes	Greiner	616201	
MATLAB	Mathworks	R2018b	
Nuclepore Hydrophilic Membrane, 0.1 μ m	Whatman	800309	
Phosphate Bufferen Saline (PBS)	Life Technologies Holdings Pte Ltd.	70013	
Polydimethylsiloxane (PDMS) Base	Dow Corning Corporation	SYLGARD 184	
Polydimethylsiloxane (PDMS) Crosslinker	Dow Corning Corporation	SYLGARD 184	
Plasma Cleaner	HARRICK PLASMA	PDC-002-HP	
Quartz Nanochip	Donghai County Alfa Quartz Products CO., LTD		
Sodium Hydroxide	Sigma-Aldrich	795429	
Sulfuric acid	Sigma-Aldrich	258105	
Texas Red DHPE: Texas Red 1,2-Dihexadecanoyl-sn-Glycero-3-Phosphoethanolamine, Triethylammonium Salt	Life Technologies Holdings Pte Ltd.	T1395MP	
Tweezer	Gooi	PDC-002-HP	
Ultrasonic Cleaners	Elma	D-78224	
Votex	Scientific Industries	G560E	
Vacuum Desiccator	NUCERITE	5312	
Water Bath	Julabo	TW8	