

Single-Molecule Diffusion and Assembly on Polymer-Crowded Lipid Membranes

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Materials

Name	Company	Catalog Number	Comments
2.5 ml Syringes	HMD Healthcare	Dispo Van, 2.5 ml Tuberculin	Plastic syringe
Acetone	Finar Chemicals	10020LL025	
Acrylic Sheet			2 mm thick
Acrylic Sheet	BigiMall		2 mm, Clear
Bath Sonicator	Branson	CPX-1800	
Calcium Chloride			
Chloroform	Sigma	528730	HPLC grade
Cholesterol	Avanti	700100	
Coplin Jar	Duran Wheaton Kimble	S6016	8 Slide Jar with Glass Cover
Coverslips	VWR	631-1574	24 mm X 50 mm
Cy3-DNA Strand	IDT		GCTGCTATTGCGTCCGTTTGGTT GGTGTGGTTGG-Cy3
Cyanine Dye (Cy3)	Cytiva Life Sciences	PA23001	
Dil	Invitrogen	D3911	Dil Stain (1,1'-Dioctadecyl-3,3,3',3'-Tetramethylindocarbocyanine Perchlorate ('Dil'; DiIC18(3)))
DNA Connector Strand 1	Sigma Aldrich		GCTGCTATTGCGTCCGTTTAGCT GGGGGAGTATTGCGGAGGAAGC T
DNA Connector Strand 2	Sigma Aldrich		CGGACGCAATAGCAGCTCACAG TCGGTCACAT
DNA Tocopherol Strand	Biomers		Toco-CCCAATGTGACCGACTGTGA
DOPE-PEG2000	Avanti	880130	1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-[methoxy(polyethylene glycol)-2000] (ammonium salt)
Double Sided Tape	3M	LF93010LE	
Drill Bits (Diamond Coated)			0.5 - 1 mm
Drilling Machine	Dremel	220	Workstation
EMCCD	Andor	DU-897U-CS0-#BV	

Fluorescence Beads	Invitrogen	F10720	
Glass Slides	Blue Star		Micro Slides, PIC-1
Glass Vials	Sigma	854190	
Hydrogen Peroxide	Lobachemie	00182	30% Solution, AR Grade
Labolene	Thermo-Fischer Scientific		Detergent
Laser 532 nm	Coherent	Sapphire	
Laser Cutter	Universal Laser Systems	ILS12.75	
Lissamine Rhodamine DOPE	Avanti	810150	1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(lissamine rhodamine B sulfonyl) (ammonium salt)
Methanol	Finar Chemicals	30932LL025	
Microscope	Olympus	IX81	
Phosphate Buffer Saline (PBS)			1X
Plasma Cleaner	Harrick Plasma Inc	PDC-002	
POPC	Avanti	850457	1-palmitoyl-2-oleoyl-glycero-3-phosphocholine
Programmable Syringe Pump	New Era Pump Systems	NE1010	High Pressure Syringe Pump
PTFE Caps	Sigma	27141	
PTFE Tubing	Cole-Parmer	WW-06417-21	Masterflex, 0.022" ID x 0.042" OD
Sulphuric Acid	SD Fine Chemicals		98%, AR Grade
TIRF Objective	Olympus	UPLAPO100XOHR	
Vacuum Desiccator	Tarsons		
Vortex Mixer	Tarsons		