

Materials List for:

Preparation of Giant Vesicles Exhibiting Visible-light-induced Morphological Changes

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Materials

Name	Company	Catalog Number	Comments
Triethylamine	Wako Pure Chemical Industries, Ltd.	202-02646	
Lithium Chloride	Wako Pure Chemical Industries, Ltd.	125-01161	
Chloroform	Kanto Chemical Co. Ltd.	07278-03	Used for vesicle preparation
Chloroform	Junsei Chemical Co. Ltd.	28560-0382	Used for ligand synthesis
Acetone	Junsei Chemical Co. Ltd.	11265-0382	
Ethanol	Junsei Chemical Co. Ltd.	17065-0382	
Ethyl Acetate	Junsei Chemical Co. Ltd.	67150-0382	
Hexane	Junsei Chemical Co. Ltd.	31055-0382	
Silica gel	Kanto Chemical Co. Ltd.	37558-79	100-210 µm
1-decanol	Tokyo Chemical Industry Co., Ltd.	D0031	25 mL
Potassium hydroxide	Kanto Chemical Co. Ltd.	32344-00	
Sodium hydroxide	Wako Pure Chemical Industries, Ltd.	197-02125	
Dimethyl sulfoxide (DMSO)	Kanto Chemical Co. Ltd.	10378-00	
d-DMSO	Sigma-Aldrich	166290100	
CD ₃ OD	Kanto Chemical Co. Ltd.	25221-43	
d-Acetone	Kanto Chemical Co. Ltd.	01054-43	
D ₂ O	Cambridge Isotope Laboratories, Inc.	DLM-4-100	
Ruthenium chloride n-Hydrate	Wako Pure Chemical Industries, Ltd.	183-00823	
2,2':6',2"-Terpyridine	Sigma-Aldrich	234672-5G	
0.1 mol/L Silver nitrate solution	Wako Pure Chemical Industries, Ltd.	192-00855	
Sodium sulfate	Kanto Chemical Co. Ltd.	37280-00	
1,2 Dipalmitoyl-sn-glycero-3-phosphocholine (DPPC)	Wako Pure Chemical Industries, Ltd.	160-12781	100 mg, stored at -20°C
1,2 Dioleoyl-sn-glycero-3-phosphocholine (DOPC)	Sigma-Aldrich	P6354-100mg	100 mg, stored at -20°C
1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(carboxyfluorescein) (ammonium salt)	Avanti Polar Lipids, Inc.	Avanti 810332p	5 mg, stored at -20°C

1,2-dioleoyl-sn-glycero-3-phosphoethanolamine-N-(lissamine rhodamine B sulfonyl) (ammonium salt)	Avanti Polar Lipids, Inc.	Avanti 810150c	1 mg, stored at -20°C
Dextran gel	GE healthcare Japan	17009010	Sephadex LH-20
Amber glass vial	Maruemu	0407-06	
Septum	Sigma-Aldrich	Z564648-100EA	
Heater	Advantech	DRM 320 DB	
Silicon film	AS ONE	6-9085-03	Thickness: 0.2 mm
Slide glass	Matsunami	S003130	76×26 mm, thickness: 0.8-1.0 mm
Cover glass	Matsunami	C218181	18×18 mm, thickness: 0.12-0.17 mm
Transfer pipette	Brand GMBH	704774	
Round-bottom flask	Vidtech	1500-05	
Sonicator	AS ONE	1-4591-32	
Optical power meter	OPHIR	ORION/PD P/N 1Z01803	
Oil bath	Riko	MH-3D	
Magnetic stirrer	Riko	MSR-10	
Diatomite	Wako Pure Chemical Industries, Ltd.	537-02305	Celite 545
Evaporator	Yamato	RE-52	
Glass funnel	Kiriyama	SB-21	10 mL, 21 mmφ
Bell jar	Kiriyama	VKB-200	
Filter paper	Kiriyama	No.4	21 mmφ
Optical microscope	KEYENCE	VHX-5000	
Confocal fluorescence microscope	Olympus	FV-1000	