

Materials List for:

Single Molecule Fluorescence Microscopy on Planar Supported Bilayers

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Materials

Name	Company	Catalog Number	Comments
#1.5 glass slides	VWR	631-0853	
250ml round bottom flask	VWR	201-1357	
50:50 beam splitter cubes	Thorlabs	BS013	
Acousto-optical modulator C1205-2	Isomet	-	only necessary if CW lasers, which cannot be modulated, are used
Alexa Fluor 488-NHS	Life technologies	A-20000	
Alexa Fluor 555-NHS	Life technologies	A-20009	
Alexa Fluor 647-NHS	Life technologies	A-20006	
autoclave tape	VWR	489-1312	or any other heat-stable sticky tape
Avanti Mini-Extruder	Avanti Lipids	610000	alternative to the bath sonicator
bath sonicator QSONICA Q700	QSONICA	Q700	
beam splitter	Cairn	P280/210/MLS	
Büchi rotary evaporator	VWR	531-0837	
camera	Andor	iXon Ultra 897	see manuscript text for alternatives
concentrated hydrogenperoxide	Roth	9683.1	
concentrated sulfuric acid	Roth	X944.2	
epoxy glue	Uhu	45705	Uhu plus sofortfest 2min
filter wheel	Sutter instruments	Lambda 10-2	
LabTek chambers	VWR	734-2062	
laser	Toptica	-	different variants (wavelengths 375 - 785 nm) are available
lens	Thorlabs, Newport	-	
DGS NTA-Ni (lipid)	Avanti Lipids	790404C	already in Chloroform-solved delivered version of the nickel salt variant is recommended
POPC (lipid)	Avanti Lipids	850457C	already in Chloroform-solved delivered version is recommended
microscope Zeiss Axiovert 200	Zeiss	-	
mirrors	Thorlabs	BB1-E02	
optical filters	AHF, Chroma, Semrock	-	filter sets are available for many different combinations of dyes
oscilloscope	BK Precision	2120C	
phosphate buffered saline (PBS)	Life technologies	14190-136	degas before usage
periscope	Thorlabs	RS99/M	
picodent twinsil 22	Picodent	13001000	alternative to the epoxy glue
power meter Lasermate-Q	Coherent	-	any powermeter sensitive in the used spectral range will do

pulse generator	Stanford Research Systems	SRS DG535	
spatial filter	Thorlabs	KT310/M	
syringe filter 0.2µm	Millipore	GVWP04700	
TIRF-capable apochromat objective 100x, NA 1.46	Zeiss	440782-9800-000	
trichloromethane/chloroform	Roth	3313.1	
tubes for ultracentrifugation polycarbonate 1.00 mm, 11 mm x 32 mm	Thermo Fisher	45237	
Sorvall ultracentrifuge	Thermo Fisher	RC M150GX	
ultracentrifuge rotor	Thermo Fisher	S120-AT2	
UV spectrophotometer Nanodrop 2000c	Thermo Fisher	-	
vacuum pump	VWR	181-0248	