

Materials List for:

Measuring Interactions between Fluorescent Probes and Lignin in Plant Sections by sFLIM Based on Native Autofluorescence

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Materials

Name	Company	Catalog Number	Comments
Confocal microscope	ZEISS	LSM 710 NLO	for confocal imaging
fine brush			to collect sections
glass vials			for incubations
high precision microscope cover glasses 170+/-5µm n°1,5#	Marienfeld	0107032	saled by Dutscher s.a in France
Infra-red pulsed laser	COHERENT	CHAMELEON VISION	For sample excitation
Micropipette Research Plus monocal 20-200µL	Eppendorf		with corresponding tips
Micropipette Research Plus monocal 2-20µL	Eppendorf		with corresponding tips
Microscope slides ca. 76 x 26 mm ground edges frosted end	Thermo Fisher Scientific	LR45D	
microtome blades disposable (pack of 50)	Agar Scientific	T5024	saled by Oxford Instruments in France
mPEG-Rhodamine, 10 kDa	Creative Peg Works	PSB-2263	
mPEG-Rhodamine, 20 kDa	Creative Peg Works	PSB-22642	
mPEG-Rhodamine, 5 kDa	Creative Peg Works	PSB-2264	
nail polish			for mounting
pH meter five easy plus	Mettler toledo	FEP20	with electrode
poly (ethylene Glycol) average mol wt 1450	Merck (sigma-Aldrich)	P5402-1kg	for sample embedding
razor blades, single edges blades, stainless steel, box of 100	Agar Scientific	T586	for fragments preparation saled by Oxford Instruments in France
rotary microtome	Microm Microtech	HM 360	
sFLim detector	BECKER-HICKL	SPC 150	for lifetime acquisition
sodium dihydrogen phosphate dihydrate NaH ₂ PO ₄ , 2H ₂ O	Merck (sigma-Aldrich)	71500	for buffer solution
sodium phosphate dibasic dihydrate Na ₂ HPO ₄ , 2H ₂ O	Merck (sigma-Aldrich)	30435-1kg	for buffer solution, old reference, the new one is 71643-1kg
tetramethyl rhodamine isothiocyanate-dextran 10 k Da	Merck (sigma-Aldrich)	R8881-100mg	