

Materials List for:

Histochemical Staining of *Arabidopsis thaliana* Secondary Cell Wall Elements

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Materials

Name	Company	Catalog Number	Comments
Agarose	EMD	MERC2125	CAS Number: 9012-36-6
Phloroglucinol	Sigma	P 3502	1,3,5-trihydroxybenzene [CAS Number: 108-73-6]
Hydrochloric acid	EMD	HX0603-75	CAS Number: 7647-01-0
Ammonium hydroxide	EMD	AX1303-6	CAS Number: 1336-21-6
Toulidine Blue O	Sigma	T3260	Blutene chloride, Tolonium Chloride [CAS Number 92-31-9]
Potassium permanganate	Sigma	223468	CAS Number 7722-64-7
Ethanol 190 proof	KOPTEC	V1401	CAS Number: 64-17-5
Congo Red	Sigma	C6277	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene 1-sulphonate) [CAS Number 573-58-0]
Fluorescent Brightener 28/ Calcofluor White Stain	Sigma	F3543	4,4'-Bis[[4-[bis(2-hydroxyethyl)amino]-6-anilino-1,3,5-triazin-2-yl]amino]stilbene-2,2'-disulphonic acid [CAS Number 4404-43-7]
Vibratome	Leica	Leica Vibrating blade microtome VT1000S	http://www.leicabiosystems.com/products/sectioning/vibrating-blade-microtomes/details/product/leica-vt1000-s/
Razor	American Safety razor company	Item # 60-0139-0000	Stainless Steel Double Edge Blade (Personna Super)
Screw Cap Microcentrifuge Tubes (2 ml)	VWR	16466-044	
Microcentrifuge Tubes (0.6 ml)	Axygen Scientific	MCT-060-C	
Mitt	Bel-Art	380000000	SCIENCEWARE Hot Hand Protector Mitt
Tissue adhesive	Ted Pella Inc	10033	Store at 4 °C or 20 °C for 3 months or longer storage
Microwave	Panasonic	NN-SD762S	PELCO Pro CA 44 Instant tissue adhesive
Camera with CCD chip with no mechanical shutter	Hamamatsu	C4742-95	
High speed color camera	QImaging	MicroPublisher 5.0 RTV	
Camera software	Molecular Devices	MetaMorph version 7.7.0.0	
Imaging analysis	Adobe	Photoshop CS4	
Micro Cover Glasses, Square, No. 1	VWR	48366-067	22 x 22 mm (7/8 x 7/8")-Cover glasses are corrosion-resistant

			and uniformly thick and flat. No. 1 thickness is 0.13 to 0.17 mm.
Frosted Micro Slides, 1 mm	VWR	48312-003	75 x 25 mm - 1 mm
Parafilm M	Alcan packaging	BRNDPM998	
TX2 Filter cube	Leica	11513851/11513885	Filter used for Congo red analysis with a band-pass of 560/40.