

Materials List for:

# Glycan Profiling of Plant Cell Wall Polymers using Microarrays

Isabel E. Moller<sup>1,2</sup>, Filomena A. Pettolino<sup>3</sup>, Charlie Hart<sup>1</sup>, Edwin R. Lampugnani<sup>1</sup>, William G.T. Willats<sup>4</sup>, Antony Bacic<sup>1,2</sup>

<sup>1</sup>Australian Centre of Excellence in Plant Cell Walls, School of Botany, University of Melbourne

<sup>2</sup>Plant Cell Biology Research Centre, School of Botany, University of Melbourne

<sup>3</sup>CSIRO Plant Industry, Black Mountain Laboratories

<sup>4</sup>Department of Plant Biology and Biotechnology, University of Copenhagen

Correspondence to: Isabel E. Moller at [imoller@unimelb.edu.au](mailto:imoller@unimelb.edu.au)

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## Materials

Name	Company	Catalog Number	Comments
3 mm Tungsten Carbide beads	Qiagen	69997	
Collection microtubes (1.2 mm)	Qiagen	19560	1.5 ml microfuge tubes can also be used
Qiagen TissueLyser II	Qiagen	85300	
3 mm glass beads	Sigma Aldrich	Z143928	
CDTA	Sigma Aldrich	34588	
Cadmium oxide	Sigma Aldrich	202894	
1,2-diamin-ethane	Sigma Aldrich	03550	
Nitrocellulose membrane (0.22 µm pore size)	GE-water process technologies	EP2HY00010	different pore sized membranes are suitable for different pin types
Xact II microarrayer robot	Labnext	001A	the Xact II robot was fitted with a custom 20 x 20 cm ceramic plate to which the nitrocellulose membrane is attached
Xtend RM microarray pins	Labnext	0037-350	pins must be suitable for spotting on membranes
384 well microtiter plates (polypropylene)	Greiner	781207	
Anti-glycan monoclonal antibodies	Plant Probes/ CarboSource/Biosupplies		Websites; PlantProbes ( <a href="http://www.plantprobes.net">www.plantprobes.net</a> ), CarboSource ( <a href="http://www.carbosource.net">www.carbosource.net</a> ) and Biosupplies ( <a href="http://www.biosupplies.com.au">www.biosupplies.com.au</a> ).
Anti-Rat IgG (whole molecule) - Peroxidase antibody produced in goat.	Sigma	A9037	the type of secondary antibodies depends on the primary antibody used (e.g. raised in rat, mouse, goat etc).
SIGMAFAST 3,3'-Diaminobenzidine tablets	Sigma	D4293	the type of developing reagent depends on the secondary antibodies used and the detection method (colourmetric, or chemiluminescent).
SuperSignal West Pico Chemiluminescent Substrate	Thermoscientific	34080	see above
Xplore Image Processing Software	LabNext	008	many software types with automatic gridding tools are available to measure pixel value of microarray spots.
Plant polysaccharides	Sigma/Megazyme		