

Materials List for:

The Use of Induced Somatic Sector Analysis (ISSA) for Studying Genes and Promoters Involved in Wood Formation and Secondary Stem Development

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Materials

Name	Company	Catalog Number	Comments
Plants	NA	NA	Please consult local nursery suppliers for plants as needed
Agrobacterium strain	NA	NA	There are many possible avenues to obtain Agrobacterium strains. We suggest you follow up within your local research community as there may be restrictions in obtaining the bacteria in your country and region.
Binary vector (gene and promoter)	NA	NA	We have developed a range of vectors to suite the ISSA protocol using a the Gateway Recombinase system. This include overexpression, RNAi knockouts and promoter fusion vectors based on modified pCambia vectors and happy to provide as needed. In addition, there are many vectors available to the research community.
LB media	Sigma	L3022	The same product could be sourced from another company
LB media with agar	Sigma	L2897	A like product could be sourced from another company
Antibiotics	Sigma	NA	The catalog number will be dependent on the antibiotic you require as a range of antibiotic are used for bacterial selection in binary vectors. This product could be sourced from a range of companies
50 ml Screw top tubes	Fisher Scientific	14-432-22	The same product could be sourced from another company
2 ml Microtube	Watson Bio Lab	132-620C	The same product could be sourced from another company
MS Media	Sigma	M9274	The same product could be sourced from another company
Scalpel blade no. 11	Sigma	S2771	The same product could be sourced from another company
Parafilm "M"	Bemis	PM996	This is the best product to use to bind the cambial window post creation

14 ml round bottom tubes	Thermo Scientific	150268	The same product could be sourced from another company
EDTA	Sigma	E6758	The same product could be sourced from another company
Triton	Sigma	X100	The same product could be sourced from another company
X-Gluc	X-GLUC direct		You will need to go to the website to order - http://www.x-gluc.com/index.html
Potassium Ferricyanide(III)	Sigma	244023	The same product could be sourced from another company
Potassium Ferrocyanide(II)	Sigma	P9387	The same product could be sourced from another company
Litmus paper	Sigma	WHA10360300	The same product could be sourced from another company
Single edge razor blade	ProSciTech	L055	The same product could be sourced from another company
Double edge razor blade	ProSciTech	L056	The same product could be sourced from another company
SEM Pin Stub	ProSciTech	GTP16111	The same product could be sourced from another company
Sample vial with screw cap	ProSciTech	L6204	The same product could be sourced from another company
Ethanol	sigma	E7023	The same product could be sourced from another company
LR white	ProSciTech	C025	The same product could be sourced from another company
Embedding Mould	ProSciTech	RL090	We recommend this variety, however there are plenty of options available
Water Soluble mounting media	ProSciTech	IA019	One example of a mounting media that could be used however other options do exist and could be explored.
Hydrogen peroxide	Sigma	216763	A like product could be sourced from another company
Glacial acetic acid	Sigma	A9967	A like product could be sourced from another company
Safranin O	ProSciTech	C138	A like product could be sourced from another company
Quanta Environmental Scanning Electron Microscope	FEI		This is the instrument used at part of this study but any other SEM that has a low vacuum mode could be utilised
ImageJ imaging software			can be sourced from the following URL http://rsbweb.nih.gov/ij/