

Materials List for:

Transient Expression in *Nicotiana Benthamiana* Leaves for Triterpene Production at a Preparative Scale

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Materials

Name	Company	Catalog Number	Comments
GC-MS instrument	any	n/a	
Thermocycler suitable for performing PCR reactions	any	n/a	
Gel electrophoresis apparatus	any	n/a	
Adjustable air displacement micropipettes (Sizes : 1000 µL, 200 µL, 100 µL, 20 µL, 10 µL, and 2 µL)	any	n/a	
Wide top liquid nitrogen carrier (size: 2 L)	any	n/a	
Benchtop microcentrifuge (Capacity: 24 x 1.5/2mL, Max. speed: $\geq$ 15000 rpm)	any	n/a	
Benchtop centrifuge (Capacity: 20 x 50 mL, Max. speed: $\geq$ 4000 rpm)	any	n/a	
Large Floor-standing centrifuge (Capacity: 4 x 1L, Max. speed: $\geq$ 4000 rpm)	any	n/a	
Standing incubator	any	n/a	
Shaking incubator (Flask Clamp sizes: 10 mL, 50 mL, 2 L)	any	n/a	
Centrifuge bottles (1 L)	any	n/a	
Vacuum infiltration apparatus	bespoke	n/a	
9 x 9 cm plant pots	any	n/a	
Freeze drying apparatus ($\geq$ 8 litre condenser capacity)	any	n/a	
Buchi SpeedExtractor 914 with 120 mL extraction cells (PSE instrument)	Buchi	SpeedExtractor E-914	
Rotary evaporator apparatus	any	n/a	
Evaporation flasks (Sizes: 100 mL, 500 mL, 1 L, 2 L)	any	n/a	
Duran bottles (Sizes: 1 L, 10 L)	any	n/a	
Conical flasks (Sizes 100 mL, 2 L)	any	n/a	
Spatulas (assorted sizes)	any	n/a	
Analytical balance (5 figures)	any	n/a	
Balance (2 figures)	any	n/a	
Measuring cylinders (10 mL, 100 mL, 1 L)	any	n/a	

A -80 freezer	any	n/a	
Biotage Isolera instrument with 250 mL collection rack and bottles (automated flash chromatography instrument)	Biotage	ISO-1EW	
Safety glasses	any	n/a	
Lab coat	any	n/a	
Autoclave	any	n/a	
Consumables			
Micropipette tips (Sizes : 1000 µL, 200 µL, 100 µL, 20 µL, 10 µL, and 2 µL)	any	n/a	
Microcentrifuge tubes (Size: 2 mL)	any	n/a	
Centrifuge tubes (Sizes: 15 mL, 50 mL)	any	n/a	
Disposable Transfer pipettes (size 2 mL)	any	n/a	
Petri dishes (Size: 100 mL)	any	n/a	
Biotage® SNAP KP-SIL 100 g flash cartridges	Biotage	FSK0-1107-0100	
HPLC vials (1 mL), vial inserts and caps	any	n/a	
Disposable purple nitrile gloves	any	n/a	
Top filter for E-914, cellulose	Buchi	51249	
Bottom filter for E-916 / 914, glass fiber	Buchi	11055932	
Reagents			
Quartz sand, 0.3 - 0.9 mm	Buchi	37689	
Celite 545 (diatomaceous earth)	Simga-Alrich	22140-1KG-F	
Silica gel 60 (0.040 -0.0063 mm)	Merck	1.09385.5000	
2-(N-morpholino)-ethanesulphonic acid	Melford	B2002	
MgCl ₂	Simga-Alrich	208337-100G	
KOH	Simga-Alrich	60377-1KG	
3'5'-dimethoxy-4'-acetophenone (acetosyringone)	Simga-Alrich	D134406-1G	
Rifampicin	Alfa Aesar	J60836	
Kanamycin sulfate	Gibco	11815-032	
Streptomycin	Simga-Alrich	S6501-100G	
Gentamycin	MP biomedical	190057	
Agarose LE gel	Melford	MB1203	
LB broth Millar	Simga-Alrich	L3522-250G	
Agar	Simga-Alrich	A5306-250G	
NaCl	Simga-Alrich	S5886-500G	
KCl	Simga-Alrich	P9541-500G	
MgSO ₄ .7H ₂ O	Sigma-Alrich	M2773-500G	
Glucose	Sigma-Alrich	G7021-100G	
Ambersep® 900 hydroxide (basic ion exchange resin)	Sigma-Alrich	06476-1KG	
Hexane	Fisher	H/0406/PB17	

Ethyl acetate	Fisher	E/0900/PB17	
Dichloromethane	Fisher	D/1852/PB17	
Methanol	Fisher	M/4056/PB17	
Ethidium bromide	Sigma-Alrich	E7637-1G	
Ethanol	VWR	20821-330	
Milli-Q water	any	n/a	
Levington F1 Compost	any	n/a	
Levington F2 Compost	any	n/a	
QIAprep Spin Miniprep Kit (Plasmid purification kit).	Qiagen	27104	
NEB 5-alpha Competent E. coli	Supplier New England Biolabs Ltd	C2987I	
pEAQ-HT-DEST1 vector	Lomonossoff laboratory John Innes Center	n/a	
pDONR207	Thermo-Fisher	pDONR207	
A. tumefaciens LBA4404	Thermo-Fisher	18313015	
GATEWAY LR CLONASE(tm) II ENZYME MIX (site-specific recombination cloning protocol)	Thermo-Fisher	11791020	
GATEWAY BP CLONASE (tm) II ENZYME MIX (site-specific recombination cloning protocol)	Thermo-Fisher	11789020	
GO TAQ G2 GREEN MASTER MIX	Promega UK Ltd	M7822	
PHUSION HIGH FIDELITY DNA POLYMERASE	New England Biolabs Ltd	M0530S	
dNTP SET 100mm	Thermo-Fisher	10297018	
RNEASY PLANT MINI KIT	Qiagen Ltd	74904	
RQ1 RNASE-FREE DNASE	Promega UK Ltd	M6101	
Invitrogen SuperScript III First-Strand Synthesis System	Fisher	10308632	
Trytone	Sigma-Alrich	T7293-250G	
Nicotiana benthamiana seeds	any reputable supplier	n/a	