

Materials List for:

# A Customizable Approach for the Enzymatic Production and Purification of Diterpenoid Natural Products

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## Materials

Name	Company	Catalog Number	Comments
1020 Trays	Greenhouse Megastore	CN-FLHD	
2-(N-morpholino)ethanesulfonic acid	Sigma	M8250-500g	MES
4" Tech Square Pot	McConkey Wholesale Grower's Supply	JMCTS4	
5977 Extractor XL MS	Agilent	-	
7890B GC	Agilent	-	
Acetonitrile	Sigma	271004	
Agar	Fisher	BP1423-2	
Bacterial yeast extract	Fisher	BP9727-2	
Beaker	CTechGlass	BK-2001-015B	
Cap, 9 mm blue screw, PTFE	Agilent	5185-5820	GC vial cap
Carbenicillin	Genesee	25-532	Carb
Chloramphenicol	Fisher	50247423	Chlor
Chromatography column	CTechGlass	CL-0015-022	
Clear humidity dome	Greenhouse Megastore	CN-DOME	
ColiRollers Plating Beads	Sigma	71013	Glass beads
CoorsTek Porcelain Mortars	Fisher	12-961A	mortar
CoorsTek Porcelain Pestles	Fisher	12-961-5A	pestle
Delta-Aminolevulinic acid hydrochloride	Sigma	50981039	Aminoleuvolinic acid
Ethanol	Fisher	A962-4	EtOH
Ethyl acetate	Fisher	E1454	
Falcon 50 mL Conical Centrifuge Tubes	Fisher	14-432-22	Falcon tubes
Fisherbrand Disposable Cuvettes	Fisher	14-955-127	cuvette
Fisherbrand Petri Dishes with Clear Lid	Fisher	FB0875713	petri dish
Fisherbrand Polypropylene Microtube Storage Racks	Fisher	05-541	microtube rack
Glucose	Sigma	G7021	
Glycerol	Fisher	G33-500	
Hexanes	Fisher	H292-4 (CS)	
HP-5MS	Agilent	19091S-433	GC column
Inlet adapter	CTechGlass	AD-0006-003	glass inlet adapter

Isopropyl $\beta$ -D-1-thiogalactopyranoside	Fisher	BP1755-100	IPTG
Kanamycin	Fisher	BP9065	Kan
KIM-KAP Caps, Disposable, Polypropylene, Kimble Chase	VWR	60825-798	breathable test tube lids
Magnesium chloride	Acros	223210010	MgCl <sub>2</sub>
Magnesium sulfate	Sigma	M7506-500g	MgSO <sub>4</sub>
Miracle-Gro Water Soluble All Purpose Plant Food	Miracle-Gro	2756810	
Mixer Mill MM 200	Retsch	20.746.0001	tissue mill
Nalgene Fernbach culture flask	Sigma	Z360236	2.8 L flask
New Brunswick I26	Eppendorf	M1324-0000	Shaking incubator
<i>Nicotiana benthamiana</i> seed	USDA Germplasm Repository	Accession TW16	<i>N. benthamiana</i>
OverExpress C41(DE3) Chemically Competent Cells	Lucigen	60442	C41-DE3 cells
Parafilm M wrapping film	Fisher	S37440	Parafilm
Potassium chloride	Sigma	P-9541	KCl
Potassium phosphate dibasic anhydrous	Fisher	P288-3	Dipotassium phosphate
Potassium phosphate monobasic			Monopotassium phosphate
Pyrex disposable culture tubes, rimless	Sigma	CLS9944516	test tubes
Pyruvate Acid Sodium Salt	Fisher	501368477	Sodium pyruvate
Retort Ring Stands	CTechGlass	ST00	ring stand
Riboflavin	Amresco	0744-250g	
Rifampicin	Sigma	R7382	Rif
Rotovap			
Sand, 50-70 mesh particle size	Sigma	274739-1KG	
Silica	Fisher	AC241660010	silica gel
Sodium chloride	Fisher	5271-3	NaCl
Sodium hydroxide	Fisher	SS266-1	NaOH
Spectinomycin	Fisher	501368607	Spec
Squibb Separatory Funnel	CTechGlass	FN-1060-006	Separatory funnel
Sunshine Mix #1	Sungro Horticulture		Potting soil
Thermo Scientific Snap Cap Low Retention Microcentrifuge Tubes	Fisher	21-402-902	microtube
Triangle funnel	CTechGlass	FN-0035	funnel
Tryptone	Fisher	BP14212	
Vial, screw, 2 mL, amber, WrtOn	Agilent	5182-0716	GC vial
visible spectrophotometer, V-1200	VWR	634-6000P	spectrophotometer
ZORBAX Eclipse XDB-C18	Agilent	990967-202	HPLC column
ZORBAX Eclipse XDB-CN	Agilent	990967-905	HPLC column