

Materials List for:

## Defining Substrate Specificities for Lipase and Phospholipase Candidates

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### Materials

Name	Company	Catalog Number	Comments
Chloroform	JT Baker	9180-03	TLC analysis & Lipid extraction
Methanol	JT Baker	9070-03	TLC analysis & Lipid extraction
Acetic Acid	JT Baker	9507-05	TLC analysis & Lipid extraction
Hexanes	JT Baker	9309-02	TLC analysis & Lipid extraction
Diethylether	Sigma	32203	Enzymatic assays
bidistilled water	ANY	NA	Enzymatic assays
Tris Base	Sigma	T-1503	Enzymatic assays
HCl	Baker	9535-02	Enzymatic assays
NaCl	Baker	3624-01	Enzymatic assays
Triton X-100	Sigma	X-100	Enzymatic assays
LB broth	ANY	NA	Bacterial growth, 10 g tryptone + 5 g yeast extract + 10 g NaCl per liter of bidistilled water
tryptone	Becton Dickinson and Company	211705	Bacterial growth
yeast extract	Becton Dickinson and Company	212750	Bacterial growth
TY broth	ANY	NA	Bacterial growth, 8 g tryptone + 3 g yeast extract + 66 mg CaCl <sub>2</sub> ·2H <sub>2</sub> O per liter of bidistilled water
CaCl <sub>2</sub> ·2H <sub>2</sub> O	Baker	1332-01	Enzymatic assays
isopropyl-β-D-thiogalactoside (IPTG)	Invitrogen	15529-019	Bacterial growth
Diethanolamine	Sigma	D-8885	Enzymatic assays
MnCl <sub>2</sub>	Sigma	221279	Enzymatic assays
Phospholipase A <sub>2</sub> snake venom	Sigma	P0790	Enzymatic assays
Phospholipase C <i>Clostridium perfringens</i>	Sigma	P7633	Enzymatic assays
Bis- <i>p</i> -nitrophenyl phosphate	Sigma	07422AH	Enzymatic assays
<i>p</i> -nitrophenyl stearate	Sigma	N3627	Enzymatic assays
<i>p</i> -nitrophenyl dodecanoate	Sigma	61716	Enzymatic assays
<i>p</i> -nitrophenyl decanoate	Sigma	N0252	Enzymatic assays
<i>p</i> -nitrophenyl palmitate	Sigma	N2752	Enzymatic assays
<i>p</i> -nitrophenyl butyrate	Sigma	N9876	Enzymatic assays
<i>p</i> -nitrophenyl octanoate	Sigma	21742	Enzymatic assays
Acetic Acid, sodium salt [1- <sup>14</sup> C]	Perkin Elmer	NEC084	Bacterial growth
dimethylsulfoxide (DMSO)	JT Baker	9224-01	Enzymatic assays

Aluminium HPTLC silica gel 60 plates. Silica gel HPTLC plates size 20 x 20 cm, 25 sheets.	Merck	105547	TLC analysis & Lipid extraction
Spectrometer UV/VIS Lambda 35	Perkin Elmer	NA	Enzymatic assays
Storm 820 Phosphorimager	Molecular Dynamics	NA	Photostimulable Luminescence scanner
Multipurpose Scintillation Counter	Beckman Coulter	NA	Radioactivity Quantification
French Pressure Cell	ThermoSpectronic	NA	Breakage of cells
chromatography paper 3MM Chr	Whatman	3030917	TLC analysis
<i>Sinorhizobium meliloti</i> 1021our	reference 11		studied strain
<i>Escherichia coli</i> BL21 (DE3) pLysS Competent cells	Novagen	69451	protein expression strain
pET9a vector	Novagen	69431	protein expression vector
pET17b vector	Novagen	69663	protein expression vector
sterile polystyrene round-bottom tube (14 ml) Falcon	Becton Dickinson	352057	radiolabeling of bacterial cultures
polypropylene microcentrifuge tubes (1.5 ml)	Eppendorf	30125.15	Enzymatic assays
1,2-dipalmitoyl- <i>sn</i> -glycerol	Sigma	D9135	lipid standard
L- $\alpha$ -phosphatidylcholine, dipalmitoyl	Sigma	P6267	lipid standard
DL- $\alpha$ -monopalmitin	Sigma	M1640	lipid standard
palmitic acid	Sigma	P0500	lipid standard