

Materials List for:

Rapid One-step Enzymatic Synthesis and All-aqueous Purification of Trehalose Analogues

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URL: <https://www.jove.com/video/54485>

DOI: [doi:10.3791/54485](https://doi.org/10.3791/54485)

Materials

Name	Company	Catalog Number	Comments
LB agar	Research Products International	L24021	
Ampicillin sodium salt	Sigma Aldrich	A9518	
Luria broth	Research Products International	L24045	
Terrific Broth	Research Products International	T15050	
L-(+)-Arabinose	Sigma Aldrich	A3256	
Phosphate-buffered Saline	GE Healthcare	SH30256	
Imidazole	Sigma Aldrich	I5513	
Sodium chloride	BDH	BDH9286	
Sodium phosphate, monobasic	Fisher Scientific	S374	
Syringe filter, 0.45 µm	Fisher Scientific	09719D	
Protease Inhibitor mini-tablets, EDTA-free	Thermo Scientific	88666	
HisTrap HP nickel affinity column, 5 mL	GE Healthcare	17-5248-02	
TRIS base ultrapure	Research Products International	T60040	
Dialysis tubing, MWCO 12–14,000	Fisher Scientific	21-152-16	
Glucose analogues	CarboSynth, Sigma Aldrich, Santa Cruz Biotechnology, American Radiolabeled Chemicals		Examples of vendors that offer numerous glucose analogues
6-Azido-6-deoxy glucopyranose (6-GlcAz)	CarboSynth	MA02620	
UDP-Glucose	abcam Biochemicals	ab120384	
Magnesium chloride hexahydrate	Fisher Scientific	M33	
Amicon Ultra-15 centrifugal filter unit	EMD Millipore	UFC901008	
Bio-Rex RG 501-X8 mixed-bed ion-exchange resin	Bio-Rad	444-9999	
Extra-Fine Bio-Gel P2 media	Bio-Rad	150-4118	
Glass-backed silica gel thin-layer chromatography plates	EMD Millipore	1056280001	
n-Butanol	Fisher Scientific	A399	
Ethanol	Fisher Scientific	S25310A	
Sulfuric acid	Fisher Scientific	A300	
Acetonitrile	EMD Millipore	AX0145	
Deuterium oxide, 99.8%	Acros Organics	351430075	
Aminopropyl HPLC column	Sigma Aldrich	58338	

Bovine serum albumin	Sigma Aldrich	5470	
Para-formaldehyde	Ted Pella	18505	
Alkyne-488	Sigma Aldrich	761621	
Sodium ascorbate	Sigma Aldrich	A7631	
Tris[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl]amine (TBTA)	Click Chemistry Tools	1061	
<i>tert</i> -Butanol	Sigma Aldrich	360538	
Dimethylsulfoxide	Sigma Aldrich	W387520	
Copper(II) sulfate	Sigma Aldrich	C1297	
Fluoromount-G mounting medium	Southern Biotechnology	10001	