

Materials List for:

Anaerobic Protein Purification and Kinetic Analysis Via Oxygen Electrode for Studying DesB Dioxxygenase Activity and Inhibition

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Materials

Name	Company	Catalog Number	Comments
Isopropyl β-D-1-thiogalactopyranoside	Gold Bio Technologies	I2481C50	
Coomassie Brilliant Blue R-250	Bio-Rad	161-0400	
Ammonium persulfate	Bio-Rad	161-0700	
30% Acrylamide	Bio-Rad	161-0158	
N,N'tetramethyl-ethylenediamine	Bio-Rad	161-0801	
Amylose Resin High Flow	New England Biolabs	E8022S	
BL21 (DE3) competent Escherichia coli cells	New England Biolabs	C2527I	
L-cysteine	Sigma Aldrich	C7352	
gallic acid	Sigma Aldrich	G7384	
4-nitrocatechol	Sigma Aldrich	N15553	
Ferrous ammonium sulfate	Mallinckrodt	5064	
Sodium dithionite	Alfa Aesar	33381-22	
wheaton serum bottles	Fisher Scientific	06-406G	
25 mm Acrodisc PF Syringe Filter with Supor Membrane	Pall Corporation	4187	
400 mL Amicon Stirred Cell Concentrator	EMD Millipore	UFSC40001	
76 mm Millipore Ultracel 10 kDa cutoff reconstituted cellulose membrane filter	EMD Millipore	PLGC07610	
DL-dithiothreitol	Gold Bio Technologies	DTT50	
Sephadex G-25 coarse desalting gal column	GE Healthcare	17-0033-01	
2 mL Crimp-Top Vials	Fisher Scientific	03-391-38	
Oxygraph Plus Electrode Control Unit	Hansatech Instruments	OXYG1 Plus	
Oxygen Eletrode Chamber	Hansatech Instruments	DW1	
Electrode Disc	Hansatech Instruments	S1	
PTFE (0.0125 mmX25mm) 30m reel	Hansatech Instruments	S4	
Electrode cleaning Kit	Hansatech Instruments	S16	
Spacer paper	Zig Zag	available at any gas station	
He-series Dri-Lab glove box	Vacuum/Atmospheres Company		
HE-493 Dri-Train	Vacuum/Atmospheres Company		

Double-Ended Micro-Tapered Stainless Steel Spatula	Fisher Scientific	21-401-10	
DWK Life Sciences Kimble Kontes Flex Column Economy Column	Fisher Scientific	k420400-1530	
10 µL, Model 701 N SYR, Cemented NDL 26s ga, 2 in, point style 2 syringe	Hamilton	80300	
DWK Life Sciences Kimble Kontes Flex Column Economy Column	Fisher Scientific	K420401-1505	
Emulsiflex-C5 high-pressure homogenizer	Avestin		
B-PER Complete Bacterial Protein Extraction Reagent	Thermo Fisher Scientific	89821	
Lysozyme from chicken egg white	Sigma Aldrich	12650-88-3	
Sodium dodecyl sulfate	Thermo Fisher Scientific	151-21-3	
ampicillin	Sigma Aldrich	7177-48-2	
Tryptone	Fisher Scientific	BP-1421-500	
Yeast extract	Fisher Scientific	BP1422-2	
Sodium Chloride	Fisher Scientific	S271-10	
Potassium Chloride	Fisher Scientific	P217-3	
Magnesium Chloride	Fisher Scientific	M33-500	
Dextrose	Fisher Scientific	D16-3	
Sodium Hydroxide	Fisher Scientific	S318-1	
Tris hydrochloride	Fisher Scientific	BP153-500	
Maltose	Fisher Scientific	BP684-500	
Glycine	Fisher Scientific	G46-500	