

Materials List for

From Cells to Cell-Free Protein Synthesis within 24 Hours Using Cell-Free Autoinduction Workflow

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jove.com/video/62866

Materials

Name	Company	Catalog Number	Comments
1.5 mL Microfuge Tubes	Phenix	MPC-425Q	
1L Centrifuge Tube	Beckman Coulter	A99028	
Avanti J-E Centrifuge	Beckman Coulter	369001	
CoA	Sigma-Aldrich	C3144-25MG	
Cytation 5 Cell Imaging Multi-Mode Reader	Biotek	BTCYT5F	
D-Glucose	Fisher	D16-3	
D-Lactose	Alfa Aesar	J66376	
DTT	ThermoFisher	15508013	
Folinic Acid	Sigma-Aldrich	F7878-100MG	
Glycerol	Fisher	BP229-1	
Glycine	Sigma-Aldrich	G7126-100G	
HEPES	ThermoFisher	11344041	
IPTG	Sigma-Aldrich	I6758-1G	
JLA-8.1000 Rotor	Beckman Coulter	366754	
K(Glu)	Sigma-Aldrich	G1501-500G	
K(OAc)	Sigma-Aldrich	P1190-1KG	
KOH	Sigma-Aldrich	P5958-500G	
L-Alanine	Sigma-Aldrich	A7627-100G	
L-Arginine	Sigma-Aldrich	A8094-25G	
L-Asparagine	Sigma-Aldrich	A0884-25G	
L-Aspartic Acid	Sigma-Aldrich	A7219-100G	
L-Cysteine	Sigma-Aldrich	C7352-25G	
L-Glutamic Acid	Sigma-Aldrich	G1501-500G	
L-Glutamine	Sigma-Aldrich	G3126-250G	
L-Histadine	Sigma-Aldrich	H8000-25G	
L-Isoleucine	Sigma-Aldrich	I2752-25G	

L-Leucine	Sigma-Aldrich	L8000-25G	
L-Lysine	Sigma-Aldrich	L5501-25G	
L-Methionine	Sigma-Aldrich	M9625-25G	
L-Phenylalanine	Sigma-Aldrich	P2126-100G	
L-Proline	Sigma-Aldrich	P0380-100G	
L-Serine	Sigma-Aldrich	S4500-100G	
L-Threonine	Sigma-Aldrich	T8625-25G	
L-Tryptophan	Sigma-Aldrich	T0254-25G	
L-Tyrosine	Sigma-Aldrich	T3754-100G	
Luria Broth	ThermoFisher	12795027	
L-Valine	Sigma-Aldrich	V0500-25G	
Mg(Glu)2	Sigma-Aldrich	49605-250G	
Mg(OAc)2	Sigma-Aldrich	M5661-250G	
Microfuge 20	Beckman Coulter	B30134	
Molecular Grade Water	Sigma-Aldrich	7732-18-5	
NaCl	Alfa Aesar	A12313	
NAD	Sigma-Aldrich	N8535-15VL	
New Brunswick Innova 42/42R Incubator	Eppendorf	M1335-0000	
NH4(Glu)	Sigma-Aldrich	09689-250G	
NTPs	ThermoFisher	R0481	
Oxalic Acid	Sigma-Aldrich	P0963-100G	
PEP	Sigma-Aldrich	860077-250MG	
Potassium Phosphate Dibasic	Acros, Organics	A0382124	
Potassium Phosphate Monobasic	Acros, Organics	A0379904	
PureLink HiPure Plasmid Prep Kit	ThermoFisher	K210007	
Putrescine	Sigma-Aldrich	D13208-25G	
Spermidine	Sigma-Aldrich	S0266-5G	
Tris(OAc)	Sigma-Aldrich	T6066-500G	
tRNA	Sigma-Aldrich	10109541001	
Tryptone	Fisher Bioreagents	73049-73-7	
Tunair 2.5L Baffled Shake Flask	Sigma-Aldrich	Z710822	
Ultrasonic Processor	QSonica	Q125-230V/50HZ	
Yeast Extract	Fisher Bioreagents	1/2/8013	