

Materials List for

Rapid, Affordable, and Uncomplicated Production of Bacterial Cell-free Lysate

Robert M. Cooper^{*1}, Taishi Tonooka^{*1,2}, Andriy Didovyk^{*1,3}, Jeff Hasty^{1,4,5}

¹Biocircuits Institute, University of California, San Diego ²Present address, Kyoto Institute of Technology ³Present address, Vertex Pharmaceuticals

⁴Department of Bioengineering, University of California, San Diego ⁵Molecular Biology Section, University of California, San Diego

*These authors contributed equally

Corresponding Author

Robert M. Cooper

rcooper@ucsd.edu

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jove.com/video/62753

Materials

Name	Company	Catalog Number	Comments
2xYT media	EMD Millipore	4.85008	or equivalent
3-PGA	Sigma Aldrich	P8877	or equivalent
Amicon Ultra-15 centrifugal filter unit, 3 kDa cutoff	Millipore Sigma	UFC900308	optional, can be used to concentrate lysate, select concentrator capacity appropriate for the volume to be concentrated
ampicillin	Sigma Aldrich	A0166-5G	or carbenicillin, a more stable variant
ATP	Sigma Aldrich	A8937	or equivalent
cAMP	Sigma Aldrich	A9501	or equivalent
CoA	Sigma Aldrich	C4282	or equivalent
CTP	United States Biosciences	14121	or equivalent
D-glucose (dextrose)	Fisher Scientific	AAA1749603	or equivalent
dithiothreitol (DTT)	Sigma Aldrich	D0632-1G	or equivalent
E. coli BL21-Gold (DE3) carrying pAD-LyseR	Addgene	99244	
E. coli BL21-Gold (DE3) Δ lacZ carrying pAD-LyseR	Addgene	99245	
Folinic acid	Sigma Aldrich	F7878	or equivalent
GTP	United States Biosciences	16800	or equivalent
HEPES	Sigma Aldrich	H3375-25G	or equivalent
LB media	Fisher Scientific	DF0446075	or equivalent
magnesium glutamate	Sigma Aldrich	49605-250G	or equivalent
NAD	Sigma Aldrich	N6522	or equivalent
potassium glutamate	Sigma Aldrich	G1501-100G	or equivalent
potassium hydroxide (KOH)	Sigma Aldrich	221473-25G	for adjusting pH
potassium phosphate dibasic	Fisher Scientific	BP363-500	or equivalent
potassium phosphate monobasic	Fisher Scientific	BP362-500	or equivalent

Spermidine	Sigma Aldrich	85558	or equivalent
Tris-HCl	Fisher Scientific	9310500GM	or equivalent
tRNA mix	Roche	10109541001	or equivalent
UTP	United States Biosciences	23160	or equivalent