

Materials List for:

Using Synthetic Biology to Engineer Living Cells That Interface with Programmable Materials

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URL: <https://www.jove.com/video/55300>

DOI: [doi:10.3791/55300](https://doi.org/10.3791/55300)

Materials

Name	Company	Catalog Number	Comments
LB Broth, Miller	Fisher Scientific	12-795-027	
Agar	Fisher Scientific	BP9744500	
Carbenicillin	Fisher Scientific	BP26481	
M9, Minimal Salts, 5x	Sigma-Aldrich	M6030	
Casamino Acids	Fisher Scientific	BP1424-100	
Magnesium Sulfate, Anhydrous	Fisher Scientific	M65-500	
Calcium Chloride, Dihydrate	Fisher Scientific	C79-500	
Dextrose (D-Glucose), Anhydrous	Fisher Scientific	D16-1	
NEB Turbo Cell Line	New England Biolabs	C2984I	
Oligonucleotide Primers	Thermo Fisher Scientific	N/A	25N synthesis, DSL purification
Q5 High-Fidelity Polymerase	New England Biolabs	M0491S	
Q5 Reaction Buffer	New England Biolabs	B9027S	
dNTP Solution Mix	New England Biolabs	N0447S	
Agarose	Bioexpress	E-3120-125	
Ethidium Bromide, 1%	Fisher Scientific	BP1302-10	
Gel Extraction Kits	Epoch Biolabs	2260250	
GenCatch Plasmid DNA Miniprep Kit	Epoch Biolabs	2160250	
AatII	New England Biolabs	R0117S	
SacII	New England Biolabs	R0157S	
HindIII-HF	New England Biolabs	R3104S	
EcoRI-HF	New England Biolabs	R3101S	
Cutsmart Buffer	New England Biolabs	B7204S	
T4 DNA Ligase	New England Biolabs	M0202S	
T4 DNA Ligase Reaction Buffer	New England Biolabs	B0202S	
ColiRolle Glass Plating Beads	EMD Millipore	7101-3	
Glycerol	Fisher Scientific	BP229-1	
Isopropyl β-D-1-thiogalactopyranoside (IPTG)	Fisher Scientific	BP1755-10	
NHS-Desthiobiotin (DTB)	Thermo Fisher Scientific	16129	

Succinimidyl Trans-4-(maleimidylmethyl) Cyclohexane-1-Carboxylate (SMCC)	Thermo Fisher Scientific	S1534	
Dimethyl Sulfoxide (DMSO)	Fisher Scientific	BP231-100	
Succinimidyl 3-(2-pyridyldithio) Propionate (SPDP)	Thermo Fisher Scientific	S1531	
NHS-LC-LC-biotin	Thermo Fisher Scientific	21343	
Horseradish Peroxidase (HRP)	Thermo Fisher Scientific	31490	
Phosphate Buffered Saline (PBS), 10x Solution	Fisher Scientific	BP399500	
Streptavidin (SA)	Thermo Fisher Scientific	21145	
Bovine Serum Albumin (BSA)	Fisher Scientific	BP1600-100	
Dithiothreitol (DTT)	Fisher Scientific	BP172-5	
Ethylenediaminetetraacetic acid (EDTA)	Fisher Scientific	S311-500	
Tween 80	Fisher Scientific	T164-500	
Hydrogen Peroxide	Fisher Scientific	H325-4	
3, 3', 5, 5'-tetramethylbenzidine (TMB)	Fisher Scientific	AC229280050	
Vivaspin 500 Centrifugal Concentrators	Viva Products	VS0192	
Sodium Acetate, Anhydrous	Fisher Scientific	BP333-500	
96-Well Polystyrene Plates	Thermo Fisher Scientific	266120	