

Materials List for

Reconstitution of the Bacterial Glutamate Receptor Channel by Encapsulation of a Cell-Free Expression System

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Citation

Loi, K.J., Moghimianavval, H., Liu, A.P. Reconstitution of the Bacterial Glutamate Receptor Channel by Encapsulation of a Cell-Free Expression System. *J. Vis. Exp.* (205), e66595, doi:10.3791/66595 (2024).

Date Published

March 8, 2024

DOI

10.3791/66595

URL

jove.com/video/66595

Materials

Name	Company	Catalog Number	Comments
100 nm polycarbonate filter	STERLITECH	1270193	
96 Well Clear Bottom Plate	ThermoFisher Scientific	165305	
BioTek Synergy H1M Hybrid Multi-Mode Reader	Agilent	11-120-533	
Creatine phosphate	Millipore Sigma	10621714001	
CSU-X1 Confocal Scanner Unit	Yokogawa	CSU-X1	
Density gradient medium (Optiprep)	Millipore Sigma	D1556	Optional to switch with sucrose in inner solution
Filter supports	Avanti	610014	
Fisherbrand microtubes (1.5 mL)	Fisher Scientific	05-408-129	
Folinic acid calcium salt hydrate	Millipore Sigma	F7878	
Glucose	Millipore Sigma	158968	
HEPES	Millipore Sigma	H3375	
iXon X3 camera	Andor	DU-897E-CS0	
L-Glutamic acid potassium salt monohydrate	Millipore Sigma	G1501	
Light mineral oil	Millipore Sigma	M5904	
Magnesium acetate tetrahydrate	Millipore Sigma	M5661	
Mini-extruder kit (including syringe holder and extruder stand)	Avanti	610020	
Olympus IX81 Inverted Microscope	Olympus	IX21	
Olympus PlanApo N 60x Oil Microscope Objective	Olympus	1-U2B933	
PEO-b-PBD	Polymer Source	P41745-BdEO	

pET28b-PRSP-GluR0-sfGFP plasmid DNA	Homemade	N/A	
pET28b-sfGFP-sfCherry(1-10) plasmid DNA	Homemade	N/A	
pET28b-WT-GluR0-sfGFP plasmid DNA	Homemade	N/A	
POPC lipid in chloroform	Avanti	850457C	
Potassium chloride	Millipore Sigma	P9541	
PUREfrex 2.0	Cosmo Bio USA	GFK-PF201	
Ribonucleotide Solution Set	New England BioLabs	N0450	
RNase Inhibitor, Murine	New England BioLabs	M0314S	
RTS Amino Acid Sampler	Biotechrabbit	BR1401801	
Sodium chloride	Millipore Sigma	S9888	
Spermidine	Millipore Sigma	S2626	
Sucrose	Millipore Sigma	S0389	
VAPRO Vapor Pressure Osmometer Model 5600	ELITechGroup	VAPRO 5600	