

Materials List for:

Generation of Marked and Markerless Mutants in Model Cyanobacterial Species

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URL: <https://www.jove.com/video/54001>

DOI: [doi:10.3791/54001](https://doi.org/10.3791/54001)

Materials

Name	Company	Catalog Number	Comments
NaNO ₃	Sigma	S5506	
MgSO ₄ ·7H ₂ O	Sigma	230391	
CaCl ₂	Sigma	C1016	
citric acid	Sigma	C0759	
Na ₂ EDTA	Fisher	EDT002	
H ₃ BO ₃	Sigma	339067	
MnCl ₂ ·4H ₂ O	Sigma	M3634	
ZnSO ₄ ·7H ₂ O	Sigma	Z4750	
Na ₂ MoO ₄ ·2H ₂ O	Sigma	331058	
CuSO ₄ ·5H ₂ O	Sigma	209198	
Co(NO ₃) ₂ ·6H ₂ O	Sigma	239267	
Ferric ammonium citrate	Sigma	F5879	
K ₂ HPO ₄	Sigma	P3786	
Na ₂ CO ₃	Fisher	SODC001	
TES	Sigma	T1375	
NaHCO ₃	Fisher	SODH001	
HEPES	Sigma	H3375	
cyanocobalamin	Sigma	47869	
Na ₂ S ₂ O ₃	Sigma	72049	
Bacto agar	BD	214010	
Sucrose	Fisher	SUC001	
Petri dish 90 mm triple vented	Greiner	633185	
0.2 µm filters	Sartorius	16534	
100 ml conical flasks	Pyrex	CON004	
Parafilm M 100 mm x 38 m	Bemis	FIL003	
Phusion high fidelity DNA polymerase	Phusion	F-530	
Agarose	Melford	MB1200	
DNA purification kit	MoBio	12100-300	
Restriction endonucleases	NEB		
T4 ligase	Thermo Scientific	EL0011	
Luria Bertani broth	Invitrogen	12795-027	
MES	Sigma	M8250	

Kanamycin sulfate	Sigma	60615	
Ampicillin	Sigma	A9518	
GeneJET plasmid miniprep kit	Thermo Scientific	K0503	
14 ml round-bottom tube	BD falcon	352059	
GoTaq G2 Flexi DNA polymerase	Promega	M7805	
425-600 μ m glass beads	Sigma	G8772	
Glycerol	Sigma	G5516	
DMSO	Sigma	D8418	
Fluorescent bulbs	Gro-Lux	69	
HT multitron photobioreactor	Infors		