VERSION 2

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🌐 BG11 hypersaline medium V.2

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Protocol status: Working
 We use this protocol and it's working

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1 Add the following to a beaker and dissolve using a stir bar on a magnetic stir plate.

BG11 hypersaline medium	amount	unit
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initial Milli-Q water	968	ml
NaCl	49.8	g
NaNO ₃	1.5	g
Na ₂ CO ₃	0.02	g
KCl	1.3867	g
MgCl ₂ *6H ₂ O	8.569	g
MgSO ₄ *7H ₂ O	6.4998	g
CaCl ₂ *2H ₂ O	2.042	g
Stock A	10	ml
Stock B	10	ml
Stock C	10	ml
Stock 5 (trace metals)	1	ml
Vitamins	1	ml

2 Add Milli-Q water to bring total volume to 1 L.

3 Adjust pH to ~7 - 7.4

4 Filter sterilize near Bunsen burner or in sterile biohood.

5 STOCK SOLUTIONS

Stock A	Concentration (g/L)
Na ₂ MG EDTA	0.1
Ferric ammonium citrate	0.6

Citric acid*1H ₂ O	0.6
CaCl ₂ *2H ₂ O	3.6
Add up to 1L of dH ₂ O	

Stock B	Concentration (g/L)
MgSO ₄ *7H ₂ O	7.5
Add up to 1L of dH ₂ O	

Stock C	Concentration (g/L)
K ₂ HPO ₄ *3H ₂ O	4
Add up to 1L of dH ₂ O	

Stock 5	Concentration (g/L)
H ₃ BO ₃	2.86
MnCl ₂ *4H ₂ O	1.81
ZnSO ₄ *7H ₂ O	0.222
CuSO ₄ *5H ₂ O	0.079
CoCl ₂ *6H ₂ O	0.05
NaMoO ₄ *2H ₂ O	0.391
Add up to 1L of dH ₂ O	