

BG11

(Modified from: Allen M. M. and Stanier R. Y., 1968. Growth and division of some unicellular blue-green algae. *J Gen Microbiol.* 51: 199-202.)

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Final Concentration (mM)
MgSO ₄ · 7H ₂ O	7.5	10	0.3
CaCl ₂ · 2H ₂ O	3.6	10	0.25
Na ₃ -citrate	0.6	10	0.024
Na ₂ -EDTA · 2H ₂ O	0.1	10	0.0025
Trace metal mix (A5 + Co)	See recipe below	1	-

Adjust to 900mL with mQ water and autoclave.

After cooling, add the following filter sterilized (0.2 µm) components to complete the media:

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Final Concentration (mM)
NaNO ₃	150	10	17.6
K ₂ HPO ₄ · 3H ₂ O	4	10	0.17
Na ₂ CO ₃	20	1	0.19
Fe-NH ₄ -citrate	6	1	-
Vitamin B12 (Cyanocobalamin)	0.02	1	-

For solid medium use 7g/L of agarose. Sterilize the agarose separately in 550 ml of milliQ water. In this case the mineral solution is filled up to 400 ml.

Trace metal mix A5 + Co:

Trace metals	Quantity g/L	Concentration in the final media (mM)
H ₃ BO ₃	2.86	0.047
MnCl ₂ · 4H ₂ O	1.81	0.009
ZnSO ₄ · 7H ₂ O	0.22	0.0007
Na ₂ MoO ₄ · 2H ₂ O	0.39	0.0016
CuSO ₄ · 5H ₂ O	0.08	0.0003
Co(NO ₃) ₂ · 6H ₂ O	0.05	0.0002