



GROWTH MEDIA

15 - Freshwater medium (BG-11)

Components	Concentration (g/L)
NaNO ₃	1.5
K ₂ HPO ₄	0.04
MgSO ₄ · 7H ₂ O	0.075
CaCl ₂ · 2H ₂ O	0.036
Citric acid	0.006
Ferric ammonium citrate	0.006
EDTA disodium	0.001
Na ₂ CO ₃	0.02
Trace metal mix * (stock solution)	

* To prepare trace metal mix use the following components: H₃BO₃ (2.86g/l), MnCl₂·4H₂O (1.81g/l), ZnSO₄ · 7H₂O (0.222g/L), Na₂MoO₄ · 2H₂O (0.39g/l), CuSO₄ · 5H₂O (0.079g/l), and Co(NO₃)₂ · 6H₂O (0.0494g/L).

PROCEDURE:

Dissolve the quantities of each component, except trace metal mix, listed in the table in 990ml of distilled H₂O. Dissolve one component at a time and stir while preparing to fully dissolve all components. Also, add 10ml/L of Trace metal mix*. Autoclave the dissolved mixture at 121 °C for 15 min.