

MWC (Modified WC Medium)

Freshwater algae

Stocks	per 100ml
(1) CaCl ₂ .2H ₂ O	3.68 g
(2) MgSO ₄ .7H ₂ O	3.70 g
(3) NaHCO ₃	1.26 g
(4) K ₂ HPO ₄ .3H ₂ O	1.14 g
(5) NaNO ₃	8.50 g
(6) Na ₂ O ₃ Si.5H ₂ O	2.12 g
(7) Combined trace elements: (x10 Concentrate)	
EDTANa ₂	4.36 g
FeCl ₃ .6H ₂ O	3.15 g
CuSO ₄ .5H ₂ O	0.01 g
ZnSO ₄ .7H ₂ O	0.022 g
CoCl ₂ .6H ₂ O	0.01 g
MnCl ₂ .4H ₂ O	0.18 g
Na ₂ MoO ₄ .2H ₂ O	0.006 g
H ₃ BO ₃	1.00 g
(8) Vitamin mix: First make primary stocks of Cyanocobalamin and Biotin.	
	per 100 ml
Cyanocobalamin (Vitamin B ₁₂)	0.1 g
Biotin	0.1 g
(Dispense any excess primary stocks into 1 ml aliquots and freeze)	
	per 200 ml
For final vitamin mix stock solution:	
Thiamine HCl (Vitamin B ₁)	0.1 g
Cyanocobalamin (Vitamin B ₁₂)	1 ml
Biotin	1 ml
Medium	per litre
TES (Dry Buffer)	0.115 g
Stock solutions 1 - 6	1.0 ml each
Stock solution 7 (Trace Elements)	0.1 ml
Stock solution 8 (Vitamin mix)	1.0 ml

Make up to 1 litre with deionized water. Autoclave at 15 psi for 15 minutes.

Reference

Guillard RRL & Lorenzen CJ (1972) Yellow-green Algae with Chlorophyllide C. J. Phycol. **8**, 10-14.

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