

f/2 Medium

Stocks	per litre
(1) Trace elements (chelated)	
Na ₂ EDTA	4.16 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
(2) Vitamin mix	
Cyanocobalamin (Vitamin B ₁₂)	0.0005 g
Thiamine HCl (Vitamin B ₁)	0.1 g
Biotin	0.0005 g

Medium	per litre
NaNO ₃	0.075 g
NaH ₂ PO ₄ .2H ₂ O	0.00565 g
Trace elements stock solution (1)	1.0 ml
Vitamin mix stock solution (2)	1.0 ml

Make up to 1 litre with filtered natural seawater. Adjust pH to 8.0 with 1M NaOH or HCl. Sterilise by autoclaving for 15 minutes at 15 psi and use when cooled to room temperature.

Reference

Guillard RRL and Ryther JH (1962) Studies of marine planktonic diatoms. I. *Cyclotella nana* Hustedt and *Detonula confervaceae* (Cleve) Gran. Can. J. Microbiol. **8**, 229-239.

16 May 2000

Note

For f/40 medium for calcifying *Emilianias*, simply dilute all stock solutions by 1/20th