

f/2 Medium

Stocks	per litre
(1) NaNO ₃	75g
(2) NaH ₂ PO ₄ .2H ₂ O	5.65g
(3) 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
(4) 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	1.0 ml
NaH ₂ PO ₄ .2H ₂ O	1.0 ml
Trace elements stock solution	1.0 ml
Vitamin mix stock solution	1.0 ml

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

Reference

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

f/10 Medium

For f/10 medium for calcifying *Emiliania*, simply dilute all stock solutions by 1/5th

f/2 'Quad'

This medium will provide nutrients for long lasting, dense cultures and can be used in liquid and agar forms.

Use 4.0 mls of the nitrate (NaNO₃) and phosphate (NaH₂PO₄.2H₂O) stock solutions.

Note

If you are making up f/2 using stocks received from CCAP, refer to the labels on the stock tubes for volume per litre as it may differ from the above.