

## f/2 Medium

<b>Stocks</b>	<b>per litre</b>
(1) Trace elements (chelated)	
Na <sub>2</sub> EDTA	4.16 g
FeCl <sub>3</sub> .6H <sub>2</sub> O	3.15 g
CuSO <sub>4</sub> .5H <sub>2</sub> O	0.01 g
ZnSO <sub>4</sub> .7H <sub>2</sub> O	0.022 g
CoCl <sub>2</sub> .6H <sub>2</sub> O	0.01 g
MnCl <sub>2</sub> .4H <sub>2</sub> O	0.18 g
Na <sub>2</sub> MoO <sub>4</sub> .2H <sub>2</sub> O	0.006 g
(2) Vitamin mix	
Cyanocobalamin (Vitamin B <sub>12</sub> )	0.0005 g
Thiamine HCl (Vitamin B <sub>1</sub> )	0.1 g
Biotin	0.0005 g

<b>Medium</b>	<b>per litre</b>
NaNO <sub>3</sub>	0.075 g
NaH <sub>2</sub> PO <sub>4</sub> .2H <sub>2</sub> 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.

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### Note

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