

F/2 Media

f/2 medium (Guillard and Ryther 1962)

NaNO₃ and NaH₂P0₄ Stock Solutions:

For each, to 1.0 L of distilled water add

NaNO ₃ Stock	75.0 g
NaH ₂ P0 ₄ Stock	5.0g

Trace Metals stock solution:

To 1.0 L of distilled water add the following:

Na ₂ EDTA	4.36 g
FeCl ₃ *6H ₂ 0	3.15 g
Primary Metals Stocks	1.0 mL of each (recipe below)

Primary Trace Metals stock solutions

To 100 mL of distilled water add the following:

CuSO ₄ *5H ₂ O	0.98 g
ZnSO ₄ *7H ₂ 0	2.2 g
CoCl ₂ *6H ₂ 0	1.0 g
MnCl ₂ *4H ₂ 0	1.8 g
NaMoO ₄ *2H ₂ 0	0.63 g

Vitamin Stock solution

Biotin	10.0 mL of 0.1 mg*mL ⁻¹ solution
Vitamin B ₁₂	1.0 ml of 1.0 mg*mL ⁻¹ solution
Thiamine HCl	0.2 g

Final Medium

To 950 mL of 0.22 μM filtered seawater (FSW) add:

NaNO ₃ Stock Solution	1.0 mL
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NaH ₂ PO ₄ Stock Solution	1.0 mL
Trace Metals Stock Solution	1.0 mL
Vitamin Stock Solution	0.5 mL

Filter sterilize at 0.22 μ M before use and store at 4 degrees C.

*Si has been removed from this recipe to reduce the growth of contaminating diatoms.