

L1 Medium

Marine dinoflagellates

Stocks

- | | per litre |
|---|------------------|
| (1) NaNO ₃ | 75g |
| (2) NaH ₂ PO ₄ ·2H ₂ O | 5.65g |
| (3) Trace elements: There are 11 chemicals. Prepare Primary stock solutions first. Add first two chemicals separately in 500ml/dH₂O , allowing each to completely dissolve before adding the primary stocks in order: | |

	Chemical	Primary stock solutions 10ml dH₂O	Amount/Volume for <u>500ml</u> working stock solution
1	Na ₂ EDTA·2H ₂ O	-	2.18g
2	FeCl ₃ ·6H ₂ O	-	1.575g
3	CuSO ₄ ·5H ₂ O	0.0245g	0.125ml
4	Na ₂ MoO ₄ ·2H ₂ O	0.199g	1.5ml
5	ZnSO ₄ ·7H ₂ O	0.22g	0.5ml
6	CoCl ₂ ·6H ₂ O	0.1g	0.5ml
7	MnCl ₂ ·4H ₂ O	1.8g	0.5ml
8	H ₂ SeO ₃	0.026g	0.5ml
9	NiSO ₄ ·6H ₂ O	0.027g	0.5ml
10	Na ₃ VO ₄	0.0184g	0.5ml
11	K ₂ CrO ₄	0.0194g	0.5ml

- (4) 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

Continues overleaf:

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Medium**per litre**

Stock solution 1	1.0 ml
Stock solution 2	1.0 ml
Stock solution 3 (Trace elements)	1.0 ml
Stock solution 4 (Vitamin mix)	1.0 ml

Make up to 1 litre with filtered natural seawater. Adjust pH to **8.0** with 1M NaOH or 1 M HCl prior to autoclaving. For agar add 15g per litre Bacteriological Agar. Autoclave at 15 psi for 15 minutes.

Reference

Guillard and Hargraves (1993)

Reviewed: 10th August 2020