

K35 Medium

Calcareous dinoflagellates

Stocks

per 100ml

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| (1) NaNO ₃ | 7.5 g |
| (2) NH ₄ Cl | 0.267 g |
| (3) Na ₂ b-glycerophosphate | 0.216 g |
| (4) H ₂ SeO ₃ | 0.0129 g |
| (5) Tris-base (7.2pH) | 12.11 g |
| (6) Trace elements | |

There are 7 chemicals. Prepare Primary stock solutions first. Add first three chemicals separately in **100ml/dH₂O**, allowing each to completely dissolve before adding the primary stocks in order:

	Chemical	Primary stock solutions 10ml dH ₂ O	Amount/Volume for 100 ml working stock solution
1	Na ₂ EDTA	-	4.36 g
2	FeCl ₃ ·6H ₂ O	-	3.15 g
3	MnCl ₂ ·4H ₂ O	-	0.18 g
4	CuSO ₄ ·5H ₂ O	0.025 g	1 ml
5	ZnSO ₄ ·7H ₂ O	0.22 g	1 ml
6	CoCl ₂ ·6H ₂ O	0.1 g	1 ml
7	Na ₂ MoO ₄ ·2H ₂ O	0.063 g	1 ml

- (7) 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.)	
For final vitamin mix stock solution:	
	per 200 ml
Thiamine HCl (Vitamin B ₁)	0.1 g
Cyanocobalamin (Vitamin B ₁₂)	1 ml
Biotin	1 ml

Medium

per litre

Sea salts	35 g
Stock solutions 1 - 3	1.0 ml each
Stock solution 4	0.01 ml
Stock solution 5 Tris-base (7.2pH)	1.0 ml
Stock solution 6 (Trace element)	0.1 ml
Stock solution 7 (Vitamin mix)	1.0 ml

Make up to 1 litre with deionised water. Adjust pH to **8.1-8.4** with 1M NaOH or 1M HCl prior to autoclaving. For agar add 15g per litre Bacteriological Agar. Autoclave at 15 psi for 15 minutes.

Reference K-medium (after Keller and Selvin, 1987) – adapted for CCAP

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Created on: 05 Nov 2019	CCAP (Culture Collection of Algae and Protozoa), SAMS Ltd, Scottish Marine Institute, Oban, Argyll, PA37 1QA, UK Tel: +44 (0)1631 559000 Fax: +44 (0)1631 559001 Email: ccap@sams.ac.uk Web: www.ccap.ac.uk	2 Pages
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