

3N-BBM+V (Bold Basal Medium with 3-fold Nitrogen and Vitamins; modified)

Stocks

per 100 ml

- | | |
|--|--------|
| (1) NaNO ₃ | 7.5 g |
| (2) CaCl ₂ .2H ₂ O | 2.5 g |
| (3) MgSO ₄ .7H ₂ O | 7.5 g |
| (4) K ₂ HPO ₄ .3H ₂ O | 7.5 g |
| (5) KH ₂ PO ₄ | 17.5 g |
| (6) NaCl | 2.5 g |

- (7) Trace elements (PIV):

per litre

Ensure elements are added in the following sequence:

- | | |
|---|---------|
| Na ₂ EDTA | 0.75 g |
| FeCl ₃ .6H ₂ O | 0.097 g |
| MnCl ₂ .4H ₂ O | 0.041 g |
| ZnCl ₂ | 0.005 g |
| CoCl ₂ .6H ₂ O | 0.002 g |
| Na ₂ MoO ₄ .2H ₂ O | 0.004 g |

Once elements are dissolved autoclave at 15 psi for 15 minutes.

per 100 ml

- | | |
|---|--------|
| (8) Vitamin B ₁ (Thiamine hydrochloride) | 0.12 g |
| Filter sterile | |
| (9) Vitamin B ₁₂ (Cyanocobalamin) | 0.1 g |
| Take 1 ml of this solution and add 99 ml deionised water. Filter sterile. | |

Medium

per litre

- | | |
|-----------------------------------|-----------|
| Stock solution 1 | 10 ml |
| Stock solutions 2 – 6 | 1 ml each |
| Stock solution 7 (Trace elements) | 6 ml |
| Stock solutions 8 – 9 | 1 ml each |

Make up to 1 litre with deionised water. For agar, add 15 g per litre Bacteriological Agar. Autoclave at 15 psi for 15 minutes.

0.3N-BBM+V

Use 1 ml per litre of stock 1.

1N-BBM

Use 3.33 ml of stock 1 and omit stocks 8 and 9

 Culture Collection of algae & protozoa	QF 09 Media Preparation Recipe Template	Revision: 001 Approved: 30APR20
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Reference

Bischoff, H. W. & Bold, H. C. 1963. Phycological Studies IV. Some soil algae from Enchanted Rock and related algal species. U. Texas Pub. No. 6318. – adapted for CCAP

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