



ACUF

Algal Collection at University Federico II

4 - Bold Basal Medium 3N (Bold-Basal Medium with 3-fold Nitrogen and vitamins - modified)

Freshwater algae

Stocks per litre

- (1) NaNO₃ - 25.0 g
- (2) MgSO₄·7H₂O - 7.5 g
- (3) NaCl - 0.5 g
- (4) K₂HPO₄·3H₂O - 7.5 g
- (5) KH₂PO₄ - 17.5 g
- (6) CaCl₂·2H₂O - 2.5 g

(7) Trace elements solution

Add to 1 litre of distilled water 0.75 g Na₂EDTA and the minerals below in exactly the following sequence:

- FeCl₃·6H₂O - 97.0 mg
- MnCl₂·4H₂O - 41.0 mg
- ZnCl₂·6H₂O - 5.0 mg
- CoCl₂·6H₂O - 2.0 mg
- Na₂Mo₄·2H₂O - 4.0 mg

(8) Vitamin B1

0.12 g Thiaminhydrochloride in 100 ml distilled water. Filter sterile.

(9) Vitamin B12

0.1 g Cyanocobalamin in 100 mg distilled water, take 1 ml of this solution and add 99 ml distilled water. Filter sterile.

Medium

- Stock solution 1 - 30.0 ml
- Stock solutions 2 - 6, 10.0 ml each
- Stock solution 7 - 6.0 ml
- Stock solutions 8 - 9, 1.0 ml each

Method

Make up to 1 litre with deionized water. Autoclave at 15 psi for 15 minutes.