culturecollection of algae and protozoa

C Medium, Modified

Freshwater Green Algae

		for 1 litre final medium
(1)	KNO_3	0.1 g
(2)	$Ca(NO_3).4H_2O$	0.15 g
(3)	Glycerophosphate Na_2	0.05 g
(4)	$MgSO_4.7H_2O$	0.04 g
(5)	Tris(hydroxylmethyl)aminomethane	0.5 g
(6)	trace element solution (see below)	3.0 ml
(7)	vitamin B_1 (see below)	1.0 ml
(8)	vitamin B_{12} (see below)	1.0 ml
(9)	Biotin (see below)	10.0 ml

Dissolve the TRIS buffer into 900 ml distilled water, then add the remaining components. Bring to 1 litre with distilled water. For agar add 15 g per litre Bacterial Agar. Autoclave at 15 psi for 15 minutes. Final pH should be 7.5.

Trace element solution (6)

Add to 1000 ml of distilled water 0.75 g Na_2EDTA and the minerals in exactly the following sequence:

$FeCl_3.6H_2O$	97.0 mg
$MnCl_2.4H_2O$	41.0 mg
$ZnCl_2.6H_2O$	5.0 mg
$CoCl_2.6H_2O$	2.0 mg
$Na_2MoO_4.2H_2O$	4.0 mg

Vitamin B_1 (7)

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

Vitamin B_{12} (8)

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

Biotin (9)

0.005 g Biotin in 100 ml distilled water. Filter sterile.

media recipes

CCAP (Culture Collection of Algae and Protozoa), 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

culturecollection of algae and protozoa

media recipes

References:

Ichimura T (1971) Sexual cell division and conjugation-papilla formation in sexual reproduction of *Closterium strigosum*. In: Nishizawa K, Arasaki S, Chihara M, Hirose H, Nakamura V, Tsuchiya Y eds. Proceedings of the Seventh International Seaweed Symposium, Sapporo, Japan, August 8-12, 1971. *Proceedings of the Seventh International Seaweed Symposium*. University of Tokyo Press, Tokyo, pp. 208-14.

Watanabe MM, Kawachi M, Hiroki M & Kasai F (2000) *NIES Collection List of Strains. Sixth Edition, 2000, Microalgae and Protozoa*. Microbial Culture Collections, National Institute for Environmental Studies, Tsukuba, Japan, 159 pp.