



Algae Culture Broth

M342

Algae Culture Broth is recommended for the isolation and cultivation of algae from soil, water and sewage.

Composition**

Ingredients	Gms / Litre
Sodium nitrate	1.000
Dipotassium phosphate	0.250
Magnesium sulphate	0.513
Ammonium chloride	0.050
Calcium chloride	0.058
Ferric chloride	0.003
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 1.87 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Algae (singular alga) encompass several groups of relatively simple living aquatic organisms that capture light energy through photosynthesis, using it to convert inorganic substances into organic matter. Algae range from single-cell organisms to multicellular organisms, some with fairly complex differentiated form and (if marine) called seaweeds. Algae are usually found in damp places or water bodies and thus are common in terrestrial as well as aquatic environments. Various algae play significant roles in aquatic ecology. Algae are used by humans in a number of ways. Because many species are aquatic and microscopic, they are cultured in clear tanks or ponds and either harvested or used to treat effluents pumped through ponds (1, 2). Algae Culture Broth is recommended for the isolation and cultivation of algae from soil, water and sewage. Algae Culture Broth is used to prepare the inoculum for the bioassay of algicidal chemicals. Algae Culture Broth is similar in composition to Algae Culture Agar, except the agar..

The medium provides all necessary nutrients for good growth of Algae but does not provide for other than minimal growth of bacteria and fungi.

Quality Control

Appearance

White to light yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

White coloured clear to slightly opalescent solution in tubes.

Reaction

Reaction of 0.187% w/v aqueous solution at 25°C. pH : 7.0±0.2

pH

6.80-7.20

Cultural Response

M342: Cultural characteristics observed under suitable light source after an incubation at 20-25°C within 1 week.

Organism

Growth

Cultural Response

Chlorella pyrenoidosa good-luxuriant
ATCC 50476

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on label.

Reference

- 1.Lembi C. A. and Waaland J. R., (Ed.), Algae and Human Affairs, 1988, Cambridge University Press.
- 2.Guiry M. D. and Blunden G., (Ed.), 1991, Seaweed Resources in Europe: Uses and Potential. John Wiley and Sons Ltd.

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