

Technical Information

Algae Culture Broth

Product Code: DM 1342

Application: 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 | 0.5 13 |
| 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

Principle & Interpretation

Algae (singular alga) encompass several groups of relatively simple living aquatic organisms that capture light energy through photosynthesis 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. Lembi and Waaland ⁽¹⁾ found that 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 (Guairy & Blunder) ⁽²⁾. Algae Culture Broth is recommended for the isolation and cultivation of algae from soil, water and sewage. Algae Culture and 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 provide minimal support for growth of bacteria and fungi

Methodology

Suspend 1.87 grams of powder media in 1000 ml distilled water. Shake well and heat if necessary to dissolve the medium completely.

Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical 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 Range:- 6.80-7.20

Cultural Response/Characteristics

DM 1342: Cultural characteristics observed under suitable light source after an incubation at 20-25°C within 1 week.

Organism

Chlorella pyrenoidosa ATCC 50476

Growth

good-luxuriant



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life

Dried media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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