

Product Data Sheet

ALGAE CULTURE BROTH

Product No. GB-DCM-00026-1A

Product Description

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. 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.

Product Specifications

Ingredients	Gms / Ltr
Sodium nitrate	1.000
Dipotassium hydrogen phosphate	0.250
Magnesium sulphate	0.513
Ammonium chloride	0.050
Calcium chloride	0.058
Ferric chloride	0.003

PRINCIPLE

The medium provides all necessary nutrients for good growth of Algae but does not provide for other than minimal growth of bacteria and fungi. The salt provides nutrients as well as balances the osmotic pressure. Agar acts as a solidifying agent.



QUALITY CONTROL SPECIFICATIONS

pH (at 25°C) : 7.0±0.2

Appearance of Powder: White to light yellow homogeneous free flowing powder.

Appearance of prepared medium: White coloured clear to slightly opalescent solution in tubes.

Microorganism	ATCC	Inoculum (CFU)	Growth	Incubation Temperature	Incubation Period
Chlorella pyrenoidosa	50476	50-100	Good-luxuriant	20-25°C	1 Week

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.