

Product Data Sheet

ALGAE CULTURE AGAR Product No. GB-DCM-00025-1A

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 Agar is recommended for the isolation and cultivation of algae from soil, water and sewage. Algae Culture Agar is used for maintaining stock cultures of algae used in the bioassay of algaecide chemicals. It is a slight modification of the formula of Allen. Fitzgerald recommended it for the cultivation of algae. Stock cultures are prepared by inoculating the surface of slants with the algal culture and incubation at room temperature under a suitable light source. These stock cultures can be maintained for several months.

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		
Agar	15.000		



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 salts included provide nutirents as well as osmotic balance. Agar added is used as a solidifying agent.

INSTRUCTION FOR USE

- Dissolve 16.87 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.
- Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

pH (at 25°C): 7.0±0.2

Appearance of Powder: Off-white to light yellow homogeneous free flowing powder. Appearance of prepared medium: White coloured clear to slightly opalescent gel forms in Petri plates

Microorganism	ATCC	Inoculum (CFU)	Growth	Recovery	Incubation Temperature	Incubation Period
Chlorella pyrenoidosa	50476	50-100	Goodl- uxuriant	>=50%	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.

Product Deterioration

Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

This product is for research use only.