



Reference : 01-007

Scharlau Microbiology - Technical data sheet

Product :
ALGAE AGAR



Specification

Solid culture medium for the isolation and cultivation of algae from soil, water and waste water.

Formula * in g/L

Sodium nitrate.....	1,000
Dipotassium phosphate	0,250
Magnesium sulfate.....	0,513
Ammonium chloride.....	0,050
Calcium chloride.....	0,058
Ferrous chloride.....	0,003
Agar.....	15,000

Final pH 7,0 ± 0,2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 17 g of powder in 1 L of distilled water and bring to the boil stirring constantly. Distribute into appropriate containers and sterilize in the autoclave at 121°C for 15 minutes.

Description

The balanced nutrient composition of the medium provides all necessary nutrients for good growth of the algae, but it does not support the growth of fungi and bacteria. It is suitable medium for algaecide testing, however its main purpose is algae maintenance and cultivation or for the isolation of water contaminants.

Technique

For the maintenance of algal strains it is recommended incubating at room temperature, under a suitable light source (natural, fluorescent tube or incandescent lamp) until a good growth is obtained (within one to two weeks). In these conditions, and without gel dehydration, cultures can be maintained up to two months.

Quality control

Incubation temperature: 20 °C ± 2,0

Incubation time: 7-15-30 days

Inoculum: Streak isolation

Microorganism

Chlorella vulgaris BEA 0753B

Growth

Good

Remarks

Dark green at 10-15 days



Chlorella ssp



Chlorella vulgaris

References

- ALLEN, (1952) Arch. Microbiol. 17:34.
- CLESCERI, L., A.E. GREENBERG, A.D. EATON (1998) Standard Methods for Examination of Water and Wastewater. APHA-AWWA-WEF. Washington, D.C.
- FITZGERALD (1962) Water and Sewage Works. 109:361.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).