

Allen Broth



Medium used for the enumeration and cultivation of *Chlorella* spp.

• CONTENTS (Liter)

Dipotassium Phosphate	0.04 g
Sodium Carbonate	0.02 g
Citric Acid	0.006 g
Magnesium Sulfate	0.04 g
Calcium Chloride	0.03 g
Sodium Nitrate	1.5 g
Final pH = 7.8 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 1.64 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Aseptically add 2 vials of Allen Broth supplement (MB-A0820). Mix well. Dispense in tubes.

Allen Broth supplement

1 vial content (each vial is sufficient for 500mL of medium)

Ferric Chloride	0.0485 mg
Manganese Chloride	0.0205 mg
Zinc Chloride	0.0025 mg
Cobaltous Chloride	0.001 mg
Sodium Molybdate	0.002 mg
EDTA Disodium Salt	0.375 mg
Sodium Silicate	29.0 mg

• INTERPRETATION

Allen Broth is a medium used for the enumeration and cultivation of *Chlorella* spp. *Chlorella* is a photosynthetic green algae, it should be cultivated in the presence of light. The medium and the supplement provide all necessary nutrients for the growth of *Chlorella* spp but do not provide for the growth of bacteria and fungi.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 20 - 25°C for 3 - 7 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: white.

Prepared medium

Appearance: clear to slightly opalescent.

Color: colorless.

Incubation conditions: : 20 - 25°C / 3 - 7 days under light

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Chlorella vulgaris</i>	9465	heavy	good	green algae

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Allen, M.M, Steiner,R.Y .J.Gen. Microbiol. 51 ,203 (1968).
2. Lembi C. A. and Waaland J. R., (Ed.), Algae and Human Affairs, 1988, Cambridge University Press.

• PACKAGE

Cat. No : MB-A0821 Allen Broth	500 G
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• MICROBIAL CULTURE IMAGES



Incubation conditions : 20 - 25°C 3 - 7 days under light