

Complete Minimal Agar



Medium used for the isolation and characterization of nutritional mutants of *Escherichia coli*.

• CONTENTS (Liter)

Dextrose	1.0 g
Dipotassium Phosphate	7.0 g
Monopotassium Phosphate	2.0 g
Sodium Citrate	0.5 g
Magnesium Sulfate	0.1 g
Ammonium Sulfate	1.0 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 26.6 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. Mix well. Dispense in petri dishes.

• INTERPRETATION

Complete Minimal Agar is a medium used for the isolation and characterization of nutritional mutants of *Escherichia coli*. Dextrose is a source of carbohydrate for fermentation. Dipotassium phosphate and Monopotassium phosphate are the buffering agents. Ammonium sulfate provides nitrogen. Magnesium sulfate provides ion. Sodium citrate inhibits gram-positive bacteria. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: slightly opalescent.

Color: medium amber.

Incubation conditions: 35 ± 2°C / 18 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i>	25922	50-100	good
<i>Escherichia coli</i>	6883	50-100	good

• 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. Davis. 1949. Proc. Natl. Acad. Sci. 35:1.
2. Lederberg. 1950. Methods in Med. Res. 3:5.
3. Nester, Schafer and Lederberg. 1963. Genetics 48:529.

• PACKAGE

Cat. No : MB-C0680 Complete Minimal Agar	500 G
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