

Complete Minimal Broth



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
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 11.6 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 tubes.

• INTERPRETATION

Complete Minimal Broth 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.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. 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: white.

Prepared medium

Appearance: clear with no precipitate.

Color: colorless.

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-C0681 Complete Minimal Broth	500 G
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