

LB (Luria Bertani) Agar Low Salt



Medium used for the cultivation of recombinant strains of *Escherichia coli*.

• CONTENTS (Liter)

Tryptone	10.0 g
Yeast Extract	5.0 g
Sodium Chloride	5.0 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 35.0 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 petri dishes.

• INTERPRETATION

LB (Luria Bertani) Broth Low Salt is a medium used for the cultivation of recombinant strains of *Escherichia coli*. The medium contains lower amount of Sodium chloride than LB(Luria Bertani) Broth High Salt(MB-L4488). This allows the researcher to select the optimal salt concentration for a specific strain. If desired, the medium may be aseptically supplemented with glucose to prepare the complete medium described. Tryptone and yeast extract provides nitrogen, carbon, vitamins and minerals for growth of microorganisms. Sodium chloride maintains the osmotic balance. 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 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: clear to slightly opalescent

Color: amber

Incubation conditions: 35 ± 2°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i>	23724 (C600)	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. Luria and Burrous. 1955. J. Bacteriol. 74:461.
2. Luria, Adams and Ting. 1960. Virology 12:348.
3. Miller. 1972. Experiments in molecular genetics. Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.
4. Ausubel, Brent, Kingston, Moore, Seidman, Smith and Struhl (ed.). 1994. Current protocols in molecular biology, vol. 1. Greene Publishing Associates, Inc., Brooklyn, N.Y.

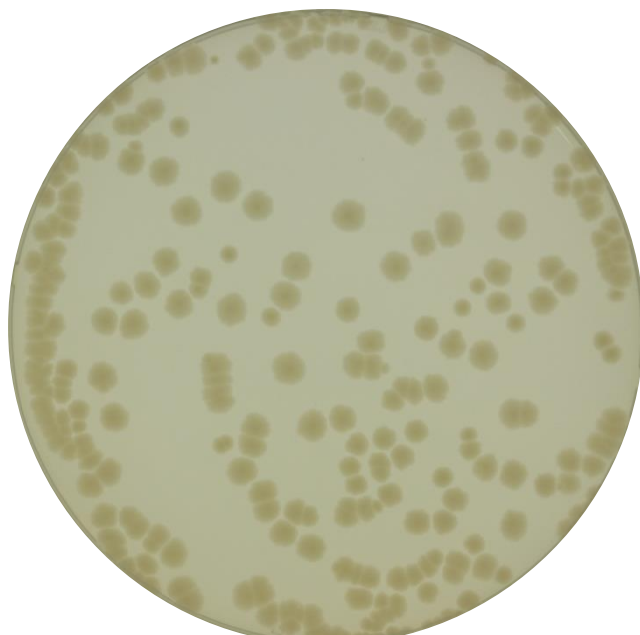
• PACKAGE

Cat. No : MB-L4477 LB (Luria Bertani) Agar Low Salt	500 G
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• MICROBIAL CULTURE IMAGES



None



Escherichia coli ATCC 25922

Incubation conditions : 35±2°C 24h