

LB (Luria Bertani) Broth Low Salt



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

• CONTENTS (Liter)

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

• PROCEDURE

Suspend 20.0 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. Pour into tubes.

• INTERPRETATION

LB (Luria Bertani) Broth Low Salt is a medium used for the cultivation and enumeration 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 the growth of microorganisms. Sodium chloride maintains the osmotic balance.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. 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
<i>Escherichia coli</i>	33694 (HB101)	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Lennox. 1955.Virology 1:190.
2. Ausubel, Brent, Kingston, Moore, Seidman, Smith and Struhl (ed.). 1994. Current protocols in molecular biology, vol. 1. Green Publishing Associates, Inc., Brooklyn, N.Y.
3. Miller. 1972. Experiments in molecular genetics. Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.
4. Sambrook, Fritsch and Maniatis. 1989. Molecular cloning: a laboratory manual, 2nd ed. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y.

• PACKAGE

Cat. No : MB-L4478 LB (Luria Bertani) Broth Low Salt	500 G
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• MICROBIAL CULTURE IMAGES



None

E.coli
ATCC 25922

Incubation conditions : 35 ± 2°C 24h