

Technical Information

LB-Growth Medium w/o Sodium chloride

Product Code: G1008

LB-Growth Medium w/o Sodium chloride is used in protein expression systems where Sodium chloride is used to induce protein.

Composition**

Ingredients	Grams/Litre
Tryptone	10.00
Yeast extract	5.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 15 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation

LB-Growth Medium w/o Sodium chloride is used in protein expression systems where Sodium chloride is used to induce protein. LB Media, originally developed by Bertani, is a very common and nutritionally rich growth media for *E. coli* (1). This media is extensively used for the maintenance and propagation of plasmid DNA and for the growth of the recombinant strains which contain protein expression vector (2). The ingredients provide all the growth factors required for the *E. coli* strain. Tryptone provides all the required peptides and peptones. Yeast extract supplies all the essential vitamins, nucleotides, amino acids, carbohydrate and trace elements.

Quality Control

Appearance of Powder :

Light yellow coloured, homogeneous, free flowing powder.

Colour and Clarity :

Light yellow coloured, clear solution without any precipitate.

Cultural Response :

Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

Organisms (ATCC)

Escherichia coli ATCC 23724

Escherichia coli ATCC 25922

Escherichia coli MTCC1652

Growth

good-luxuriant

good-luxuriant

good-luxuriant

Storage and Shelf Life

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.

References

- Bertani, G. (1951). Studies on lysogenesis. I. The mode of phage liberation by lysogenic *Escherichia coli*. J. Bacteriol. 62:293-300.
- Sambrook, J. E. F. Fritsch, and T. Maniatis (1989). Molecular cloning: a laboratory manual, 2nd edition ed., Cold Spring Harbour laboratory, Cold Spring Harbour, N.Y.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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