

## LB-Growth Medium w/o Sodium chloride

G008

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

### Directions:

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:

Cream to yellow colored, homogeneous, free flowing powder.

#### Color and Clarity:

Light yellow colored, clear solution without any precipitate.

#### Cultural Response:

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

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Escherichia coli</i> ATCC 23724	50 - 100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922	50 - 100	good-luxuriant
<i>Escherichia coli</i> MTCC 1652	50 - 100	good-luxuriant

Please refer disclaimer Overleaf









**Storage and Shelf-life:**

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

**References:**

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

**Symbol:**

	Manufacturer		Do not use if package is damaged
	Batch code		Temperature limit
	Date of manufacture (YYYY-MM)		Consult instructions for use
	Use-by date (YYYY-MM)		Catalogue number

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HiMedia Laboratories Pvt. Ltd. Reg. office : Plot No. C-40, Road No. 21Y, MIDC, Wagle Industrial Area, Thane, (West) 400604, Maharashtra, INDIA.  
Customer Care No.: 00-91-22-6116 9797 Tel: 00-91-22-6147 1919, 6903 4800 Email: techhelp@himedialabs.com Website: www.himedialabs.com