OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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TECHNICAL DATA SHEET

Luria Bertani Broth w/o Sodium Chloride

Principle

Luria Bertani broth without sodium chloride is composed of tryptone and yeast extract. Tryptone serves as a source of nitrogen and amino acids and yeast extract provides nitrogen, vitamins, carbohydrate and other growth factors. Luria Bertani broth without sodium chloride is used in protein expression systems where sodium chloride is used to induce protein.

Use: For maintaining and propagating Escherichia coli in molecular microbiology procedures.

Contents*

Ingredients	Gram/Liter
Tryptone	10.000
Yeast Extract	5.000

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 15.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45°C and inoculate test sample aseptically.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

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Quality Control

Appearance	**Light beige colored free flowing, homogeneous powder**
Color and clarity of ready medium	**Light yellow to amber colored opalescent solution**
Growth Promotion properties	**Best at ≤ 100 CFU at 33-37 ºC for 18-48 h**
Indicative properties	**Optimum at ≤ 100 CFU at 33-37 ºC for 18-24 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Organism	ATCC	Inoculum	Growth	Incubation Temperature	Incubation period
Escherichia coli	**8739**	**50-100**	**Luxurious**	**33-37 ºC**	**18-48 h**

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. **Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.**
2. ***Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
3. **Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.**

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