

## TMT 023- LURIA BERTANI BROTH

### INTENDED USE

For cultivation and maintained of recombinant strains of *E.coli* and may be used for routine cultivation of not particularly fastidious microorganisms.

### PRODUCT SUMMARY AND EXPLANATION

Luria Bertani Broth, Miller is slightly different with double amount of sodium chloride as compared to original media described by Lennox for cultivation and maintenance of recombinant strains of *Escherichia coli*. The media is nutritionally rich for the growth of pure cultures of recombinant strains. Strains derived from *Escherichia coli* K12 are deficient in Vitamin B synthesis which are further modified by specific mutation to create auxotrophic strains and are therefore unable to grow on nutritionally deficient media.

### COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	10.000
Sodium chloride	10.000
Yeast extract	5.000

### PRINCIPLE

Casein enzymic hydrolysate provides peptides and peptones while Vitamin B complex is provided by yeast extract. Sodium chloride provides sodium ions for membrane transport and also maintains the osmotic equilibrium of the medium.

### INSTRUCTION FOR USE

Inoculate the sample and Incubate at specified temperature and time.

### QUALITY CONTROL SPECIFICATIONS

Appearance of prepared medium	:	Yellow to amber coloured solution.
Quantity of Medium	:	10 ml of medium in tubes.
pH (at 25°C)	:	7.5 ± 0.2
Sterility Check	:	Passes release criteria

### INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Time
<i>Escherichia coli</i>	23724	50-100	Luxuriant	35 - 37°C	18 - 24 Hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	35 - 37°C	18 - 24 Hours
<i>Escherichia coli</i> DH5 alpha	MTCC 1652	50-100	Luxuriant	35 - 37°C	18 - 24 Hours

### PACKAGING:

Pack of 25 Ready-To-Use Liquid Medium tubes containing 10 ml in each tube.

Pack of 50 Ready-To-Use Liquid Medium tubes containing 10 ml in each tube.

### STORAGE



On receipt, store tubes in the dark at 10-25 °C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Tubed media stored as labeled until just prior to use may be inoculated up to the expiration date and incubated for the recommended incubation times. Allow the medium to warm to room temperature before inoculation.

## DISPOSAL

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

## REFERENCES

1. Lennox E.S./ 1955, Transduction of Linked Genetic Characters of the host by bacteriophage P1., Virology, 1:190.
2. Atlas R.M., 1983, Handbook of Microbiological Media, Ed. By Parks L., CRC Press, Inc.



Quantity



Lot / Batch Number



Temperature Unit



Manufacturer



Best Before



Certification of  
Good Manufacturing Practices



Catalogue No.



Authorized Representative



European Conformity



Consults Instructions for use :



QR  
Code



For In Vitro Diagnostic Use

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**

**Revision: 21<sup>st</sup> March. 2022**