

CM 22,693 - LURIA BERTANI BROTH

INTENDED USE

For cultivation and maintenance 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> <i>Escherichia coli</i> | 23724 | 50-100 | Luxuriant | 35 - 37°C | 18 - 24 Hours |
| <i>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

MedNet GmbH
Inhofenstr. 10,
48153 Münster, Germany

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**

