



LURIA BERTANI BROTH, MILLER

TM 406

INTENDED USE

For cultivation and maintenance of recombinant strains of *Escherichia coli*

COMPOSITION

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

PRODUCT SUMMARY AND EXPLANATION

LURIA BERTANI BROTH, MILLER is used for cultivation and maintenance of recombinant strains of *Escherichia coli* strains used in molecular microbiology procedures. LB Broth, Miller is based on the formulation developed by Miller for the growth of pure cultures used in genomic testing. 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*.

PRINCIPLE

Medium contains Casein enzymatic hydrolysates as a source of mixed amino acids and peptides, all amino acids originally present in casein which are essential for the growth of microorganisms. Yeast extract provide vitamin B complex. Sodium chloride provides sodium ions for membrane transport and also maintains the osmotic equilibrium of the medium.

INSTRUCTION FOR USE

1. Dissolve 25.0gms in 1000ml of distilled water.
2. Gently heat to boiling with gentle swirling and dissolve the medium completely.
3. Dispense into appropriate containers.
4. Sterilize in autoclave at 15 psi (121°C) for 15 minutes.



QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow colour, homogeneous free flowing powder

Appearance of prepared medium: Yellow to amber colour, clear solution

pH (at 25°C): 7.5 ± 0.2

INTERPRETATION:

Cultural characteristics observed after incubation at 35 ± 2°C for 18-24 hours.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Escherichia coli</i>	25922	50 - 100	Luxuriant
<i>Escherichia coli</i>	23724	50 - 100	Luxuriant
<i>Escherichia coli</i> DH5 <i>alpha</i>	MTCC 1652	50 - 100	Luxuriant

STORAGE & STABILITY

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

REFERENCES

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

IVD
For In Vitro Diagnostic Use

REF
Catalogue Number

QTY.
Quantity

**LOT/
B. NO.**
Lot / Batch Number


Temperature Unit


Manufacturer


Best Before

EC REP
Authorized Representative

CE
European Conformity


Consults Instructions
for Use


ISO 9001:2015
Certification


QR
Code

cGMP
CERTIFIED
Certification of
Current Good Manufacturing Practices



www.tmmedia.in

PRODUCT DATA SHEET

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

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