

L.B. Medium

Liquid medium for the cultivation of *Escherichia coli* used in molecular genetic studies.

| TYPICAL FORMULA | (g/l) |
|----------------------------|-------|
| Enzymatic Digest of Casein | 10.0 |
| Yeast Extract | 5.0 |
| Sodium Chloride | 10.0 |
| Final pH 7.0 ± 0.2 | |

DESCRIPTION

L.B. Medium is a liquid medium used for maintaining and propagating recombinant strains of *Escherichia coli* in molecular microbiology procedures.

PRINCIPLE

Enzymatic digest of casein provides carbon, nitrogen, amino acids and minerals. Yeast extract supplies vitamins and trace elements. Sodium chloride maintains the osmotic balance of the medium.

PREPARATION

Melt the content of the bottle in a water bath at 100°C (loosing the cap partially removed) until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into final containers.

TECHNIQUE

Consult appropriate references for detailed information and recommended procedures.

INTERPRETATION OF RESULTS

Turbidity indicates microbial growth.

STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

1. Miller, J. H. (1972) Experiments in molecular genetics. Cold Spring Harbor Laboratory. Cold Spring Harbor, New York.
2. Sambrook, J., E. F. Fritsch, and T. Maniatis (1989) Molecular cloning: a laboratory manual, 2nd ed. Cold Spring Harbor Laboratory, Cold Spring Harbor, New York.



PRODUCT SPECIFICATIONS

NAME

L.B. Medium

PRESENTATION

Glass bottles containing liquid medium

STORAGE

10-25°C

PACKAGING

| Ref. | Content | Packaging |
|--------|--------------------|----------------------------|
| 412390 | 6 x 200 ml bottles | 6 bottles in cardboard box |

pH OF THE MEDIUM

7.0 ± 0.2

USE

L.B. Medium is a liquid medium used for maintaining and propagating recombinant strains of *Escherichia coli* in molecular microbiology procedures

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Appearance: clear to very slightly opalescent
Colour: very light amber

SHELF LIFE

3 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 22 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 CFU/ml
Incubation Conditions: 35 ± 2°C for 18-24 h

Microorganism

Escherichia coli ATCC® 25922
Escherichia coli ATCC® 8739

Growth

Good
Good

TABLE OF SYMBOLS

| | | | | | | | | | |
|---|------------------|---|------------------------|---|-----------------------------------|---|--------------------------------------|---|---------------------------|
|  LOT | Batch code |  | Do not reuse |  | Manufacturer |  | Use by |  | Fragile, handle with care |
|  REF | Catalogue number |  | Temperature limitation |  | Contains sufficient for <n> tests |  | Caution, consult instruction for use | | |



LIOFILCHEM® S.r.l.

Via Scozia, Zona Ind.le - 64026, Roseto degli Abruzzi (TE) - ITALY
Tel +39 0858930745 Fax +39 0858930330 Website: www.liofilchem.net E-mail: liofilchem@lioilchem.net