

# LB-Broth (Miller)

For the cultivation of *E. coli* in fermentation and molecular genetic studies.

## Mode of Action

LB-Broth is based on the formulation of MILLER (1972) supporting growth of *E. coli*.

Casein peptone and yeast extract supply essential growth factors, such as nitrogen, carbon, sulfur, minerals and vitamins.

## Typical Composition (g/litre)

### LB-Broth:

Yeast extract 5.0; peptone from casein 10.0; sodium chloride 10.0.

## Preparation

Suspend 25 g LB-Broth in 1 litre of demin. water and autoclave for 15 min at 121 °C.

pH: 7.0 ± 0.2 at 25 °C.

The prepared broth is clear and yellowish-brown.

## Experimental Procedure

According to appropriate use or purpose.

Incubation: 24 h at 35-37 °C aerobically.

## Literature

MILLER J.H.: Experiments in Molecular Genetics, Cold Spring Harbor Laboratory (1972).

## Ordering Information

Product	Merck Cat. No.	Pack size
LB-Broth (Miller)	1.10285.0500	500 g
LB-Broth (Miller)	1.10285.5000	5 kg

## Quality control

Test strains	Growth
<i>Escherichia coli</i> ATCC 25922	good
<i>Escherichia coli</i> ATCC 11775	good