

LB-Agar (Miller)

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

Mode of Action

LB-Agar 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-Agar:

Yeast extract 5.0; peptone from casein 10.0; sodium chloride 10.0; agar-agar 12.0.

Preparation

Suspend 37 g LB-Agar in 1 litre of demin. water and autoclave for 15 min at 121 °C.

pH: 7.0 ± 0.2 at 25 °C.

The prepared agar 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-Agar (Miller) | 1.10283.0500 | 500 g |

Quality control

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



Escherichia coli
ATCC 11775



Escherichia coli
ATCC 25922