

LB Agar (Lennox) with Ampicilin 100 µg/ml

Cat. 2084

For the cultivation of E. coli in molecular genetics studies.

Practical information

Applications	Categories
Selection of transformants	Escherichia coli

Industry: Culture media for Molecular biology

Principles and uses

The LB Agar (Lennox) with Ampicilin 100 µg/ml medium is used for the selective growth of ampicillin resistant E. coli recombinant strains in molecular genetic studies. This medium is recommended for strains that require less salt concentration.

The transformed E. coli are plated directly onto selective agar media (LB Agar containing antibiotic), fewer transformed colonies will appear per ml plated. To select the bacteria with the plasmid, it is necessary to subcultivate an inoculum from LB agar to a LB broth with the antibiotic added.

Formula in g/L

Ampicillin	0,1	Bacteriological agar	15
Sodium chloride	5	Tryptone	10
Yeast extract	5		

Typical formula g/L * Adjusted and/or supplemented as required to meet performance criteria.

Preparation

Suspend 35 grams of medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. AVOID OVERHEATING. DO NOT AUTOCLAVE. Cool to 45-50 °C, mix well and dispense into plates.

Instructions for use

Inoculate and incubate at a temperature of 35±2 °C for 18-24 hours.

Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Amber, slightly opalescent	7,0±0,2

Microbiological test

Incubation conditions: (35±2 °C / 18-24 h).

Microorganisms	Specification
Escherichia coli DH5 alpha + pUC19	Good growth
Escherichia coli ATCC 25922	Total inhibition
Escherichia coli ATCC 8739	Total inhibition

Storage

Temp. Min.:2 °C
Temp. Max.:8 °C

Bibliography

Atlas, R.M., L.C.Parks (1993) Handbook of Microbiological Media. CRC Press, Inc. London.
The condensed protocols from molecular cloning: a laboratory manual/ Joseph Sambrook, David W .Russell.