

## LB Agar with Kanamycin 50 µg/ml (Lennox)

Cat. 2090

To select colonies of Escherichia coli in molecular genetic studies.

### Practical information

| Applications               | Categories       |
|----------------------------|------------------|
| Selection of transformants | Escherichia coli |

Industry: Molecular biology

### Principles and uses

LB Agar with Kanamycin 50 µg/ml (Lennox) is used for the selective growth of Kanamycin 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), where 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

|                      |    |           |      |
|----------------------|----|-----------|------|
| Bacteriological agar | 15 | Kanamycin | 0,05 |
| Sodium chloride      | 5  | Tryptone  | 10   |
| Yeast extract        | 5  |           |      |

### 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. Sterilize in autoclave at 118 °C for 10 minutes. Cool to 45-50 °C, mix well and dispense into plates.

### Instructions for use

- Carry out the experimental procedure according to appropriate use or purpose.
- 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).

| Microrganisms                          | Specification    |
|--|------------------|
| Escherichia coli DH5 alpha + PH SG 298 | Good growth      |
| Escherichia coli ATCC 25922            | Total inhibition |
| Escherichia coli ATCC 8739             | Total inhibition |

### Storage

Temp. Min.: 2 °C

## Bibliography

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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.

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