

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD179 - LB AGAR

Intended Use:

LB Agar is a standard, nutrient-rich medium for growing bacteria, especially *E. coli*, in molecular biology and general microbiology. It is suitable for general bacterial growth, plasmid propagation, and selection of recombinant strains.

Principle and Uses:

- **Purpose:** LB agar supports robust growth of a wide range of non-fastidious bacteria, making it ideal for routine culturing and cloning.
- **Applications:** Used for bacterial colony isolation, maintenance, transformation, and recombinant DNA work. Tryptone provides peptides and peptones while Vitamin B complex is provided by yeast extract. Sodium chloride provides sodium ions for the membrane transport and maintains osmotic equilibrium of the medium.

Limitations:

This medium is general purpose medium and does not support the growth of fastidious organisms.

Composition

Tryptone - 10.0 g/L
Yeast extract - 5.0 g/L
Sodium chloride - 5.0 g/L
Agar - 15.0 g/L

Storage: 2-25°C

Appearance: light amber

pH Range: 6.8 - 7.2

Package contents: 10 plates in a package

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal

After interpretation all plates should be destroyed by standard incineration methods.

Performance Testing Results

GPT: Inoculum 10-100 cfu.

Test	ATCC	Incubation Temp. (°C)	Incubation Cond	Reaction 1
<i>Kocuria rhizophila (M.luteus)</i>	9341	33-37 °C	Aerobic, 24 hours	Growth
<i>Escherichia coli</i>	25922	33-37 °C	Aerobic, 24 hours	Growth
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 24 hours	Growth