

High-Density LB Agar (Premixed Powder)

Cat. No.: H1524572 | Pack size: 1 EA; 5 × 1 EA; 10 × 1 EA | Storage: Room temperature

Overview

LB medium is the most widely used bacterial culture medium in molecular biology. It supports the cultivation of *Escherichia coli*, *Pseudomonas putida*, *Vibrio parahaemolyticus*, *Bacillus* species and other bacteria. Easy to prepare and nutrient-rich, it contains peptides, amino acids, water-soluble vitamins and carbohydrates, and is applicable to experiments including gene cloning, plasmid DNA production and recombinant protein expression. High Density LB is a special LB medium developed with refined tryptone and yeast extract for culturing *E. coli*. It provides more abundant nitrogen sources, peptides and amino acids than standard LB medium. When culturing cloning strains such as DH5α, it yields approximately 50% more cell mass and plasmid DNA than regular LB. For prokaryotic expression strains like BL21 (DE3), its biomass output is 20%–50% higher than conventional LB.

Product Composition :

Component	High Density LB Broth (g/L)	High Density LB with Agar (g/L)	Concentration (w/v)
Tryptone	10	10	0.01
Yeast Extract	5	5	0.005
NaCl	10	10	0.01
Agar Powder	—	15	0.015

Instructions for Use:

High-Density LB Agar (Premixed Powder): Weigh one pouch (20g) and add into 450 mL double-distilled water. Wait until tryptone, NaCl and yeast extract are fully dissolved (agar remains undissolved), then adjust the final volume to 0.5 L. Autoclave at 121°C for 20 minutes. Cool the medium to below 55°C before use, or store the sterilized medium at room temperature.

Precautions:

1. pH value (25°C): 7.0±0.1. When this product is mixed with pH 7.0 deionized water, the pH of the medium will be close to 7.0, so it can be used directly without pH adjustment.
2. LB medium shall be prepared with water first and autoclaved at 121°C for 20 minutes before use.
3. Discontinue use if severe moisture absorption of the powder is observed.
4. High Density LB medium supports faster growth of Escherichia coli, with a growth rate about 20% higher than standard LB medium.
5. For preparation volumes less than 0.5 L, add 2.5g medium powder per 100 mL water. Seal the leftover powder tightly and store it in a dry place.

Specifications

Attribute	Value
Specifications & Purity	BioReagent, for Microscopy, 500mL/pouch
Stability And Storage	Store at room temperature long term (24 months).
Storage	Room temperature
Shipped In	Normal
Grade	BioReagent, for Microscopy

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.