



LB Agar, Miller | AS-1267

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

LB Agar, based on Miller's LB Medium, is intended to promote the growth of *E. Coli* strains, especially those that have uses in molecular microbiology. These strains, frequently *E. coli* K12, have undergone additional mutations to become auxotrophic strains, which are unable to grow on media with little nutrition and are incapable of producing vitamin B. in LB Agar, Vital nitrogen, amino acids, minerals, and vitamins are provided by tryptone, and the B-group vitamins are provided by yeast extract. Osmotic equilibrium is ensured by sodium chloride. Also, Agar is solidifying agent in medium.

Composition (gr/L)

Tryptone	10
Yeast Extract	5
Sodium Chloride	10
Agar	15
Final pH at 25°C	7.0 ± 0.2

Preparation

Dissolve 40 grams of the medium into 1 liter of deionized water. Stir well. Autoclave for 15 minutes at 121°C.

Quality Control

Dehydrated Appearance: Tan, free-flowing, homogeneous.

Prepared Appearance: Light amber, very slightly to slightly opalescent.

Reaction of 4.0% Solution at 25°C: pH 7.0 ± 0.2

Microbial Test Results

For 18 to 48 hours, incubate at 35 ± 2°C.

Organism (ATCC)	Recovery
<i>Escherichia coli</i> (25922)	Good
<i>Enterococcus faecalis</i> (19433)	Good
<i>Pseudomonas aeruginosa</i> (27853)	Good

Storage

Keep the container at 15-30 °C and prepared medium at 2-8 °C.