

**LB (Luria-Bertani) Medium
(Miller’s LB Medium), Liquid**

Catalog Number **MM 002-01**
Storage Temperature 2~8°C

Product Description

Luria-Bertani medium (LB), a nutritionally rich medium, is primarily used for the growth of bacteria. LB media have been widely used in molecular microbiology applications for the preparation of plasmid DNA and recombinant proteins. It continues to be one of the most common media used for maintaining and cultivating laboratory recombinant strains of *Escherichia coli*.

Storage/Stability

LB medium should be stored at 2~8°C. Deterioration of LB medium may be recognized by (1) precipitate or particulate matter throughout the solution, (2) cloudy appearance, (3) color change, and/or (4) pH change. Product label bears expiration date.

Biological Performance Characteristics

LB medium contained tryptone, yeast extract and sodium chloride. Peptides and peptones are provided by tryptone. Vitamins and certain trace elements are provided by yeast extract. Sodium ions for transport and osmotic balance are provided by sodium chloride. Tryptone is used to provide essential amino acids to the growing bacteria, while the yeast extract is used to provide a plethora of organic compounds helpful for bacterial growth. LB medium tested bacteria culture.

Precautions

For *In Vitro* Use Only

Components	g/L MM 002-01
Tryptone	10.0
Yeast extract	5.0
Sodium chloride	10.0

Product Profile

Appearance	Yellow transparent solution
pH at RT	6.8 ~ 7.2
Sterility	Sterilized by Autoclave system(121°C, 15 lb/sq. in., 20 min) Sterility tests are performed in accordance with protocols described in SOP.

References

Lennox, E. S. "Transduction of linked genetic characters of the host by bacteriophage P1." *Virology* 1.2 (1955): 190-206.
Green, Michael R., and Joseph Sambrook. *Molecular cloning: a laboratory manual*. New York: Cold Spring Harbor Laboratory Press, 2012.