

# LB Broth (Miller)

CAT No. APL-3001

## DESCRIPTION

LB Broth (Miller) is based on the formula described by Miller. LB Broth, Miller is a nutritionally rich medium designed for growth of pure cultures of recombinant strains. E. coli is grown to late log phase in LB Medium. Some plasmid vectors replicate to high copy numbers without selective amplification. Some vectors do not replicate so freely and need to be selectively amplified. Chloramphenicol can be added to inhibit host synthesis and prevent replication of the bacterial chromosome.

## CONTENT

APL-3001	
LB Broth (Miller)	500 g

## STORAGE

Stored at RT. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

## APPLICATION

This medium is used for the growth and maintenance of Escherichia coli strains used in molecular microbiology procedures.

## PROTOCOL

1. Dissolve 25 g of the medium in one liter of purified water.
2. Mix thoroughly.
3. Autoclave at 121°C for 15 minutes.

**NOTE:** *If working with temperate bacteriophages, such as lambda, the addition of magnesium sulphate at 2 g/L is recommended to promote phage absorption. If required the medium may be aseptically supplemented with glucose after sterilization.*

## PRODUCT USE LIMITATION

Research use only.