

Terrific Broth (TB), Liquid

Catalog Number **MM 012-01**
 Storage Temperature 2~8°C

Product Description

Terrific broth (TB) is appropriate for mass production of plasmid and cosmid DNA. Terrific Broth is an enriched medium, which helps the recombinant strains of *E. coli* maintain an extended growth phase.

Storage/Stability

Terrific broth should be stored at 2~8°C. Deterioration of Terrific broth 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

Terrific broth medium contained tryptone, yeast extract and potassium phosphates. The large amount of tryptone and yeast extract in the medium allows the bacteria to produce a higher plasmid yield. The tryptone and yeast extracts also provide additional nutrients and growth factors required for enhanced growth of recombinant strains of *E. coli*. Glycerol is added as an additional carbohydrate source in this medium. The potassium phosphates are present to prevent a drop in pH of the medium during bacterial growth. This currently consists of tests for pH, sterility, and plasmid extraction efficiency using DH5α *E. coli*.

Precautions

For *In Vitro* Use Only

Components	MM 012-01
Bacto-Tryptone	12.0 g/L
Bacto-Yeast extract	24.0 g/L
Glycerol	4.0 ml/L
KH ₂ PO ₄	17 mM
K ₂ HPO ₄	72 mM

Product Profile

Appearance	Yellow transparent solution
pH at RT	7.0 ~ 7.4
Sterility	Sterilized by Autoclave system(121°C, 15 lb/sq. in). Sterility tests are performed in accordance with protocols described in SOP.

References

Tartof, K. D., and C. A. Hobbs. "Improved media for growing plasmid and cosmid clones." *Focus* 9.2 (1987): 12.
 Green, Michael R., and Joseph Sambrook. *Molecular cloning: a laboratory manual*. New York: Cold Spring Harbor Laboratory Press, 2012.