

**Tribo™ Terrific Broth Medium (Catalog# TBS8060)***Liquid microbial growth medium***DESCRIPTION**

Tribo™ Terrific Broth (TB) Medium is a highly enriched medium developed to improve yields in recombinant *E. coli*. Due to the enriched formulation of TB, strains have an extended growth phase. TB contains Tryptone, yeast extract, potassium phosphate and glycerol. Tryptone, a pancreatic digest of casein (also called Peptone C) provides a source of amino acids. Yeast extract provides vitamins and trace elements, including a rich source of B vitamins, which allows for elevated cell yields. Potassium phosphate is added to provide potassium for cellular systems and to maintain the pH of the medium during the growth of the culture. This prevents cell death due to a drop in pH. Glycerol is both a source of carbon and carbohydrates. Unlike glucose, glycerol is not fermented to acetic acid. This prevents a drop in pH during growth and subsequent cell death due to loss of pH of the culture.

**COMPOSITIONS**

1.2% Tryptone.  
2.4% Yeast Extract.  
72mM Dipotassium Phosphate (K<sub>2</sub>P<sub>04</sub>)  
17mM Monopotassium Phosphate (KH<sub>2</sub>P<sub>04</sub>)  
0.4% Glycerol.  
pH: 7.0 ±0.2

**APPLICATIONS**

Suitable for non-selective cultivation of *E. coli* strains for cloning, gene transformation and production of recombinant proteins. Since this medium supports higher cell densities than LB medium, it is preferred for maximizing plasmid yield in preparation for nucleic acid purification. Also suitable for selective cultivation when appropriate antibiotics are added.

**KEY FEATURES**

- Filter-sterilized.
- Ready-to-use format.
- Convenient package size.
- Standard formulation.

**QTY/BOTTLE**

1000 ml/bottle

**STORAGE CONDITIONS**

The product can be stored for 1 year at 4-8°C.

**RELATED PRODUCTS**

LB Medium (TBS8056)  
SOB Medium (TBS8057)  
SOC Broth Medium (TBS8058)  
2xYT Broth Medium (TBS8059)  
0.1% Gelatin Solution (TBS8004)  
1.25M Calcium Chloride (TBS5071)  
2.5M Calcium Chloride (TBS5072)  
2x HBS, pH7.05 (TBS5076)

**REFERENCE**

1. Sambrook J., Fritsch E. E. and Maniatis T., 1989, Molecular Cloning : A Laboratory Manual, 2nd Ed., Cold Spring Harbor Lab. Press; Cold Spring Harbor, N.Y.
2. Fidelibus, Robert. Peptide Expression and Purification to Elucidate the Mechanism of Vascular Alpha<sub>2</sub>C-Adrenoceptor Translocation. FASEB J. 2012, 26(8): 870.

**This product is for *in vitro* research use only and is not intended for use in humans or animals in therapeutic or diagnostic procedures.**

