

**Tribo™ SOB Medium (Catalog# TBS8057)****DESCRIPTION**

Tribo™ SOB (Super Optimal Broth) Medium is formulated according to Hanahan's recipe. It is a highly-referenced microbial growth medium used for the preparation and transformation of competent cells like recombinant E. coli.

This growth medium is nutritionally rich, containing casein hydrolysate and yeast extract as sources of nitrogenous compounds and growth factors, and magnesium sulfate as a supply of magnesium ions necessary for DNA replication. An isotonic environment is maintained by inclusion of sodium chloride in the formulation. This is critical for survival of competent cells, which have been perforated in preparation for transformation with recombinant DNA.

**COMPOSITIONS**

2.0% Tryptone.  
0.5% Yeast extract.  
10mM Sodium Chloride.  
2.5mM Potassium Chloride.  
10mM Magnesium Chloride.  
10mM Magnesium Sulfate.  
pH: 7.0 ±0.2

**APPLICATIONS**

Suitable for non-selective cultivation of E. coli strains for cloning, gene transformation and production of recombinant proteins. 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)  
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. Hanahan D., 1983, J. Mol. Biol., 166:557.

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

