

PRODUCT INFORMATION

Terrific Broth, Modified

Cat. No. T20-114M

DESCRIPTION

Terrific Broth (TB), Modified is a liquid medium used with Glycerol in cultivating recombinant strains of *Escherichia coli*. Although the bacteria are slower growing in this medium, the intention of Terrific Broth, Modified is to improve plasmid yields and cell density. Tryptone provides nitrogenous compounds and minerals, while Yeast Extract is a source of B-complex vitamins. Mono- and Dipotassium Phosphates serve as pH buffers.

FORMULA (g/L)

Tryptone	12.0 g	Potassium Phosphate, Monobasic	2.2 g
Potassium Phosphate, Dibasic	9.4 g	Yeast Extract	24.0 g

Final pH: 7.4 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 47.6 grams of the medium and 4ml of Glycerol in a Liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing, and beige to yellow beige in color.
2. Visually, the prepared medium is clear and yellow to amber with no precipitate.
3. Expected cultural response after 18-24 hours at 35°C.

ORGANISM	RESULT
<i>Escherichia coli</i> ATCC 23724	Good Growth
<i>Escherichia coli</i> ATCC 33694	Good Growth
<i>Escherichia coli</i> ATCC 33849	Good Growth

<i>Escherichia coli</i> ATCC 39403	Good Growth
<i>Escherichia coli</i> ATCC 47014	Good Growth
<i>Escherichia coli</i> ATCC 53868	Good Growth

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.