

TECHNICAL DATA SHEET

Article No. 8049

Terrific Broth

SYNONYMS

Peptone water for Genetics

SPECIFICATION

Liquid medium for the cultivation of recombinant *Escherichia coli* strains.

FORMULA* IN G/L

Tryptone	12.0
Yeast extract	24.0
Dipotassium phosphate	9.4
Monopotassium phosphate	2.2

Final pH 7.2 ±0.2 at 25 °C

*Adjusted and/or supplemented as required to meet performance criteria.

DIRECTIONS

Dissolve 47.6 g of powder in 1 l of distilled water. Add 4 ml of glycerol. Bring to the boil, distribute into suitable containers and sterilise by autoclaving at 121 °C for 15 minutes.

DESCRIPTION

This medium was developed by Tartoff and Hobbs to improve the yield of *E. coli* recombinant strains. This medium is compatible with a high cell density, maintaining the organism in the logarithmic growth phase over a long period of time. This provides a higher yield of recombinant proteins and plasmid DNA. In many cases, this medium is replaced by the classic formulation of LB broth.

TECHNIQUE

Dilute and prepare samples and volumes as necessary according to specific protocols, established regulations, official directives and /or expected results. Each technician must evaluate the results according to the specifications established in their laboratory.

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Geschäftsführer: Lutz-Alexander Geyer / Thomas Roth

Any of the standardised techniques described in the Bibliography of references may be used.

QUALITY CONTROL

- Incubation temperature: 35 ±2.0 °C
- Incubation time: 24 h
- Inoculum: Practical range 100 ±20 CFU. Min. 50 CFU (productivity).

Microorganism	Growth	Remarks
<i>Escherichia coli</i> ATCC® 25922	Good	-
<i>Escherichia coli</i> ATCC® 8739	Good	-
<i>Escherichia coli</i> ATCC® 35218	Good	-
<i>Escherichia coli</i> ATCC® 11775	Good	-

REFERENCES

- ISO 11133:2014. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- SAMBROOK, J., E.F. FITSCH & T. MANIATIS (1989) Molecular cloning: A laboratory manual. 2nd ed. Cold Spring Harbor Laboratory. Cold Spring Harbor, N.Y.
- TARTOFF, K.D. & C.A. HOBBS (1987) Improved media for growing plasmids and cosmid clones. Bethesda Research Laboratories Focus 9:12.

STORAGE

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (4-30 °C).

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