

Technical Information

Tryptone Growth Medium II

Product Code: G1010

Tryptone Growth Medium II is used as a general purpose media for the growth of *Escherichia coli*.

Composition**

Ingredients	Grams/Litre
Tryptone	10.00
Sodium chloride	8.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 18 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation

Tryptone Growth Medium II is used as a general purpose media for the growth and maintenance of *Escherichia coli*. Tryptone provides all the required peptides and peptones. Sodium chloride provides the sodium ions which help in the membrane transport and maintenance of osmotic equilibrium of the medium.

Quality Control :

Appearance of Powder :

Light yellow coloured, homogeneous, free flowing powder.

Colour and Clarity :

Light yellow coloured, clear solution without any precipitate

Cultural Response :

Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

Organisms (ATCC)

Escherichia coli ATCC 23724

Escherichia coli ATCC 25922

Escherichia coli MTCC1652

Growth

good-luxuriant

good-luxuriant

good-luxuriant

Storage and Shelf Life

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.

References

1. Bertani, G. (1951). Studies on lysogenesis. I. The mode of phage liberation by lysogenic *Escherichia coli*. J. Bacteriol. 62:293-300.
2. Sambrook, J. E. F. Fritsch, and T. Maniatis (1989). Molecular cloning: a laboratory manual, 2nd edition ed., Cold Spring Harbour laboratory, Cold Spring Harbour, N.Y.

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