MOLECULAR BIOLOGY

Molecular Biology Growth Media

Technical Information

Tryptone Growth Top Agar

Product Code: G1012

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

Composition**

Ingredients	Grams/Litre
Tryptone	10.00
Sodium chloride	8.00
Agar	7.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 25 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle and Interpretation

Tryptone Growth Top Agar is used as a general purpose media for the growth 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. Top agar is used to distribute bacteriophage and bacterial cells uniformly on the thin layer over the surface of a plate. Top agar contains less amount of agar than usual plates and so stays in a molten state for several days when it is kept at 45° to 50°C.

Quality control

Appearance of Powder :
Light yellow coloured, homogeneous, free flowing powder.
Gelling :
Firm, comparable with 0.7% Agar gel.
Colour and Clarity :
Light yellow coloured, clear to slight opalescent gel forms in forms in tubes.
Cultural Response :
Cultural characteristics observed after an incubation at 35-37°C C for 18 - 48 hours.

Organisms (ATCC)	Growth
Escherichia coli ATCC 23724	good-luxuriant
Escherichia coli ATCC 25922	good-luxuriant
Escherichia coli MTCC 1652	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.

Reference

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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