

## Tryptone Growth Top Agar

G012

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

### Directions :

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 tubes.

#### Cultural Response :

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

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Please refer disclaimer Overleaf

### Organisms (ATCC)

*Escherichia coli* ATCC 23724

*Escherichia coli* ATCC 25922

*Escherichia coli* MTCC1652

### Growth

good-luxuriant

good-luxuriant

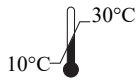
good-luxuriant

### 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, 2<sup>nd</sup> edition ed., Cold Spring Harbour laboratory, Cold Spring Harbour, N.Y.



Storage temperature



Do not use if package is damaged



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