

## Technical Information

### Tryptone Growth Agar II

#### Product Code: G1011

Tryptone Growth Agar 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
Agar	15.00

\*\* Formula adjusted, standardized to suit performance parameters

#### Methodology

Suspend 33 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 Agar II 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.

#### Quality control

##### Appearance of Powder :

Cream to yellow coloured, homogeneous, free flowing powder.

##### Gelling :

Firm, comparable with 1.5% Agar gel.

##### Colour and Clarity :

Light yellow coloured, clear to slight opalescent gel forms in petri plates

##### Cultural Response :

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

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Escherichia coli</i> ATCC 23724	50 -100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922	50 – 100	good-luxuriant
<i>Escherichia coli</i> MTCC 1652	50 – 100	good-luxuriant

#### Storage and Shelf Life

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

#### Reference

- Bertani, G. (1951). Studies on lysogenesis. I. The mode of phage liberation by lysogenic *Escherichia coli*. J. Bacteriol. 62:293-300.
- 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.

## **Disclaimer :**

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