Tryptone Growth Top Agar

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

Composition**:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
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</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>10.00</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>8.00</td>
</tr>
<tr>
<td>Agar</td>
<td>7.00</td>
</tr>
</tbody>
</table>

** 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.

Please refer disclaimer Overleaf
Organisms (ATCC)
Escherichia coli ATCC 23724  
Escherichia coli ATCC 25922  
Escherichia coli MTCC1652  

Growth
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:


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**Disclaimer:**

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