Tryptone Growth Medium II

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

**Composition**:

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

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

**Directions**:

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.

<table>
<thead>
<tr>
<th>Organisms (ATCC)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Escherichia coli</em> ATCC 23724</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td><em>Escherichia coli</em> ATCC 25922</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td><em>Escherichia coli</em> MTCC1652</td>
<td>good-luxuriant</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf
Storage and Shelf-life:

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

References: