Tryptone Salt Broth

Tryptone Salt Broth is recommended for preparation of specimens, stock suspensions and decimal dilutions for the purposes of microbiological tests.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein enzymic hydrolysate</td>
<td>1.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>8.500</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.0±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Suspend 9.5 grams in 1000 ml distilled water. Heat if necessary 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 Salt Broth is recommended by ISO Committee (1) for preparation of specimens, stock suspensions and decimal dilutions used in various microbiological tests of food specimens.

Casein enzymic hydrolysate provides nitrogenous compounds and other essential growth nutrients. Sodium chloride maintains the osmotic equilibrium.

For ten-fold serial dilutions, dispense the diluents in volume necessary for the preparation of the decimal dilutions into test tubes or flasks in quantities such that after sterilization each tube or flask contains 9.0 ml. Transfer 1 ml of the initial suspension by means of a pipette into a tube containing 9 ml of sterile diluent at the appropriate temperature. For optimal precision, avoid any contact between the pipette containing the inoculum and the sterile diluent. Mix thoroughly to obtain dilutions until the appropriate number of microorganisms has been obtained.

**Quality Control**

**Appearance**

Cream to yellow homogeneous free flowing powder

**Colour and Clarity of prepared medium**

Yellow coloured clear solution without any precipitate.

**Reaction**

Reaction of 0.95% w/v aqueous solution at 25°C. pH : 7.0±0.2

**pH**

6.80-7.20

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Escherichia coli</em> ATCC 25922</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Salmonella Typhimurium</em> ATCC 14028</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> ATCC 25923</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>

**Storage and Shelf Life**

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

**Reference**


**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.