TSB - Tryptone Soya Broth

A qualitative test for detection of microorganisms in blood.

**Directions**
Inoculate the blood sample collected from the patient directly into the bottle, after opening the seal. Insert the air venting device for aerobic culture. Do not insert for anaerobic cultures.

**Principle And Interpretation**
Soyabean Casein Digest Medium is recommended by various pharmacopeias as a sterility testing and as a microbial limit testing medium (1, 2, 3). This medium is a highly nutritious medium used for cultivation of a wide variety of organisms (4). The combination of pancreatic digest of casein and papaic digest of soyabean meal makes the medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Dextrose and dibasic potassium phosphate serve as the carbohydrate source and the buffer, respectively in the medium. Sodium chloride maintains the osmotic balance of the medium.

**Quality Control**

**Appearance**
Sterile clear Tryptone Soya Broth in glass bottle.

**Colour**
Light amber coloured clear solution

**Quantity of Medium**
20 ml of medium in glass bottle.

**Reaction**
7.10- 7.50

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

**Sterility test**
Passes release criteria

**Cultural Response**

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Candida albicans ATCC 10231</em></td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Bacillus subtilis ATCC 6633</em></td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Streptococcus pyogenes ATCC 19615</em></td>
<td>Good-luxuriant</td>
</tr>
<tr>
<td><em>Neisseria meningitidis ATCC 13090</em></td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Staphylococcus aureus ATCC 25923</em></td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Bacteroides vulgatus ATCC 8482</em></td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>

**Storage and Shelf Life**
Store between 2-8°C. Use before expiry date on the label.

**Reference**
HiMedia Laboratories

Technical Data


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