**Technical Data**

**TSB - Tryptone Soya Broth Supplemented with 0.05% SPS**

A qualitative test for detection of microorganisms in blood. *Sterile, in glass bottles*.

### Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptone</td>
<td>17.000</td>
</tr>
<tr>
<td>Soya peptone</td>
<td>3.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Dextrose (Glucose)</td>
<td>2.500</td>
</tr>
<tr>
<td>Dipotassium hydrogen phosphate</td>
<td>2.500</td>
</tr>
<tr>
<td>Sodium polyanethol sulphonate (SPS)</td>
<td>0.500</td>
</tr>
<tr>
<td>Final pH ( at 25°C)</td>
<td>7.3±0.2</td>
</tr>
</tbody>
</table>

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

### Directions

Label the ready to use blood culture bottle. Do not unscrew cap. remove the top of the screw cap. Disinfect the part of the rubber stopper which is now exposed. Draw patient's blood with the sterile or disposable needle and syringe as explained in specimen collection and disposable column. Transfer the blood sample immediately into the culture bottle by puncturing the rubber stopper with the needle and injecting the blood. Venting: Use sterile venting needle (LA038). Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line. discard the needle and mix the contents by gently inverting the bottle 2-3 times. Do Not vent the bottle for anaerobic cultures. Incubate at 35±2°C for 18-24 hours and further for seven days.

### Principle And Interpretation

Soyabean Casein Digest Medium is recommended by various pharmacopeias as a sterility testing and as a microbial limit testing medium (4,8). This medium is a highly nutritious medium used for cultivation of a wide variety of organisms (3,7). Bacteremia is a serious and often life-threatening clinical condition. An important diagnostic tool for this condition is to analyze a blood specimen for the growth of bacteria on selected growth media. Such media often contain SPS as an anticoagulant and as an inhibitor of the bacteriostatic and bactericidal effects of blood cells and plasma factors (1,2).

The combination of tryptone and soya peptone makes the medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Dextrose (Glucose) and dipotassium hydrogen phosphate serve as the carbohydrate source and the buffer, respectively in the medium. Sodium chloride maintains the osmotic balance of the medium.

### Type of specimen

Clinical sample: Blood

### Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (5,6). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions

In Vitro diagnostic use only. Read the label before opening the container. Wear protective gloves/protective clothing/ eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

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*Please refer disclaimer* Overleaf.
### Limitations
1. This medium is general purpose medium and may not support the growth of fastidious organisms.

### Performance and Evaluation
Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### Quality Control

**Appearance**
Sterile clear Tryptone Soya Broth supplemented w/ 0.05% SPS in glass bottle.

**Colour**
Light yellow coloured clear solution

**Quantity of Medium**
70 ml of medium in glass bottle, (For Adult use)

**pH**
7.10-7.50

**Sterility Check**
Passes release criteria.

### Cultural response
Cultural characteristics observed after an incubation at-

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Growth at 30-35°C for &lt;= 3 days</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>subsp. aureus ATCC 6538 (00032*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>subsp. aureus ATCC 25923 (00034*)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Escherichia coli ATCC 8739 (00012*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Escherichia coli ATCC 25922 (00013*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Escherichia coli NCTC 9002</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Pseudomonas aeruginosa ATCC 9027 (00026*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Pseudomonas aeruginosa ATCC 27853 (00025*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Bacillus subtilis spizizenii ATCC 6633 (00003*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Micrococcus luteus ATCC 9341</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Salmonella Typhimurium ATCC 14028 (00031*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Salmonella Abony NCTC 6017 (00029*)</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Streptococcus pneumoniae ATCC 6305</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Streptococcus pyogenes ATCC 19615</td>
<td>50 -100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>
Growth at 20-25°C for <= 5 days

*Candida albicans ATCC 2091* (00055*)
- 50 -100 luxuriant

*Candida albicans*
ATCC 10231 (00054*)
- 50 -100 luxuriant

# *Aspergillus brasiliensis*
ATCC 16404 (00053*)
- 50 -100 luxuriant

Key : (*) Corresponding WDCM numbers
(##) Formerly known as *Aspergillus niger*

Storage and Shelf Life
On receipt store between 15-25°C. Use before expiry date on the label
Product performance is best if used within stated expiry period.

Disposal
User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (5,6).

References
4. Indian Pharmacopeia, 2018, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
In vitro diagnostic medical device

CE Marking

Storage temperature

Do not use if package is damaged

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