Fluid Lactose Medium w/ Soya Lecithin and Polysorbate 20  
(Twin Pack)

**Intended use**
Fluid Lactose Medium w/ Soya Lecithin and Polysorbate 20 is recommended for microbial evaluation of oral hygiene products.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>HM Peptone B#</td>
<td>3.000</td>
</tr>
<tr>
<td>Gelatin peptone</td>
<td>5.000</td>
</tr>
<tr>
<td>Lactose</td>
<td>5.000</td>
</tr>
<tr>
<td>Soya lecithin</td>
<td>5.000</td>
</tr>
<tr>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td>Polysorbate 20 (Tween 20)</td>
<td>40.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>6.9±0.2</td>
</tr>
</tbody>
</table>

**Directions**
Suspend 18.0 grams of Part A in 960 ml distilled water. Heat if necessary to dissolve the medium completely. Add 40 ml of Part B. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and dispense as desired.

**Principle And Interpretation**
Fluid Lactose Medium w/ Soya Lecithin and polysorbate 20 is recommended for microbial evaluation of oral hygiene products (1).

HM Peptone B and gelatin peptone provide nitrogen and carbon compounds, long chain amino acids and other essential nutrients for bacterial metabolism. Lactose is the source of fermentable carbohydrate. Soya lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants; hexachlorophene and formalin.

**Type of specimen**
Oral hygiene product samples

**Specimen Collection and Handling**
For the samples follow appropriate techniques for handling specimens as per established guidelines (2,3). 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 specimens. Safety guidelines may be referred in individual safety data sheets.

**Limitations**
Some strains may show poor growth due to variable nutritional requirements.

**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**
Part A : Cream to yellow homogeneous free flowing powder Part B : Colourless viscous liquid

Please refer disclaimer Overleaf.
Colour and clarity of prepared medium
Yellow clear to slightly opalescent solution

Reaction
Reaction of the medium (1.8 w/v Part A + 4.0% w/v Part B) at 25°C. pH : 6.9±0.2

pH
6.70-7.10

Cultural Response
M1188: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candida albicans ATCC 26790</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Enterococcus faecalis ATCC 29212 (00087*)</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>Pseudomonas aeruginosa ATCC 27853 (00025*)</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Staphylococcus aureus ATCC 25923 (00034*)</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life
Store between 10-30°C in a tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle inorder to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. 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 clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (4,5).

Reference
1. Faverco [chem.], 1967, Microbiological Sampling of Surfaces, Biological Contamination Control Committee, American Assoc. for Contamination Control

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.