**Tryptone Soya HiVeg™ Broth w/ 10% NaCl and 1% Sodium Pyruvate**

**Intended Use**
Recommmended for enumeration of *Staphylococcus aureus* in dairy products by MPN technique.

**Composition**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiVeg™ hydrolysate</td>
<td>17.000</td>
</tr>
<tr>
<td>Soya peptone</td>
<td>3.000</td>
</tr>
<tr>
<td>Dextrose(Glucose)</td>
<td>2.500</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>10.000</td>
</tr>
<tr>
<td>Dipotassium hydrogen phosphate</td>
<td>2.500</td>
</tr>
<tr>
<td>Sodium pyruvate</td>
<td>10.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.3±0.2</td>
</tr>
</tbody>
</table>

**Directions**
Suspend 135 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense into tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle And Interpretation**
Tryptone Soya HiVeg™ Broth with 10% NaCl and 1% Sodium pyruvate is prepared by using HiVeg Hydrolysate which is free of BSE/TSE risks associated with animal based peptones. This medium can be used for the same purpose of Tryptone Soya Broth with 10% Sodium chloride and 1% Sodium pyruvate which is used for enumeration of *Staphylococcus aureus* in dairy products using MPN Technique (1,2).

HiVeg™ hydrolysate and soya peptone provide essential nutrients. Dextrose serves as an energy source. Sodium pyruvate protects injured cells, helps recovery and also enhances growth of *Staphylococcus aureus*. Many other bacteria except Staphylococci are inhibited by 10.5% sodium chloride (3).

For MPN Technique: Inoculate 3 tubes of Tryptone Soya HiVeg™ Broth w/ 10% NaCl and 1% sodium pyruvate (M1229) of each test dilution with 1 ml aliquots of decimal dilutions of sample. Incubate at 35-37°C for 48 hours. Following incubation, transfer a loopful from each positive growth tube to Baird-Parker HiVeg Agar (MV043) plates. Colonies of *S. aureus* on Baird Parker HiVeg™ Agar are typically circular, smooth, convex, moist, 2-3 mm in diameter, grey-black to jet black and surrounded by an opaque zone.

**Type of specimen**
Dairy samples

**Specimen Collection and Handling**
For dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (4). 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.

**Limitations**
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
Light yellow to brownish yellow homogeneous free flowing powder

Colour and Clarity of prepared medium
Light yellow coloured clear solution without any precipitate

Reaction
Reaction of 13.50% w/v aqueous solution at 25°C. pH: 7.3±0.2

pH
7.10-7.50

Cultural Response
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>Bacillus subtilis ATCC 6633 (00003*)</td>
<td>&gt;=10³</td>
<td>inhibited</td>
</tr>
<tr>
<td>Streptococcus pyogenes ATCC 19615</td>
<td>50-100</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td>Staphylococcus aureus ATCC 25923 (00034*)</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Candida albicans ATCC 10231 (00054*)</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Neisseria meningitidis ATCC 13090</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.

Improper storage of the product may lead to lump formation due to the hygroscopic nature of the product. Store in dry ventilated area protected from extremes of temperature and sources of ignition. 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 (5,6).

Reference
5. Isenberg, H.D. Clinical Microbiology Procedures Handb0ook. 2nd Edition.

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.