HiCulture™ Transport Swabs w/ 0.1% Peptone Water

Recommended for recovery of microorganisms from samples to be transported

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptone</td>
<td>10.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.2±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Using the capped swab, provided along with the media containing tube, collect the sample to be transported. Discard the cap of the tube and insert the capped swab with the sample till the bottom of the medium. Tighten the cap firmly. The specimen will be preserved during transportation and also the viability of the organisms will be maintained but it will diminish over the time. Some growth of contaminants may occur during longer period of transport. After the transportation, the specimen should be inoculated in proper medium as soon as possible. The cultures on transport swabs must not be kept at room temperature for more than 24 hours.

**Principle And Interpretation**

Peptone Water is particularly suitable as a substrate in the study of indole production. Peptone used in 0.1% Peptone Water is rich in tryptophan content. Presence of indole can be demonstrated using either Kovacs or Ehrlich reagent. This medium is suitable for recovery of microorganisms.

Peptone Water is recommended (1, 2, 3) for studying the ability of an organism to ferment a specific carbohydrate which aid in differentiation of genera and species. Peptone water is formulated as per Shread, Donovan and Lee (4).

Peptone provides nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other essential nutrients. Sodium chloride maintains the osmotic balance of the medium.

**Quality Control**

**Appearance**
Sterile 0.1% Peptone water in tube with Sterile Cotton Swabs.

**Colour of the medium**
Clear yellow solution

**Quantity of Medium**
1 ml of medium in tubes

**Reaction**
7.00-7.40

**Sterility test**
Passes release criteria

**Cultural response**
Viability of following was established for a period of 24 hours. Organisms grew luxuriantly when recovered on Tryptone Soya Agar (M290) and incubates at 35-37°C for 18-24 hours.

**Organism**

<table>
<thead>
<tr>
<th>Organism</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escherichia coli ATCC 25922</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Salmonella Typhimurium ATCC 14028</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Staphylococcus aureus ATCC 25923</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>
Storage and Shelf Life

On receipt all the above products to be stored between 5-25°C

Reference