HiCulture™ Transport Swabs w/ Stuart Transport Medium

Recommended for transportation of *Neisseria* species and other fastidious organisms from clinic to laboratory.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
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<tbody>
<tr>
<td>Calcium chloride</td>
<td>0.100</td>
</tr>
<tr>
<td>Sodium glycerophosphate</td>
<td>10.000</td>
</tr>
<tr>
<td>Sodium thioglycollate</td>
<td>1.000</td>
</tr>
<tr>
<td>Methylene blue</td>
<td>0.002</td>
</tr>
<tr>
<td>Agar</td>
<td>3.000</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>7.4±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**

Stuart transport medium was designed by Stuart for Gonococci (1). The medium is chemically defined, semisolid, non-nutrient medium which will prevent microbial proliferation. Because of composition of medium microorganisms are able to survive for a sufficiently long period. The medium provides sufficient anaerobiosis which is monitored by means of the redox indicator methylene blue. Calcium chloride and glycerophosphate provide a good buffering capacity to the medium and also maintains osmotic equilibrium in the medium. Sterile cotton swabs allow absorption of specimen material while polylpropylene shaft allows semiflexibility to the swab stick, aiding in collection.

**Quality Control**

**Appearance**

Sterile Stuart Transport Medium in tubes with sterile cotton swabs.

**Colour**

Whitish to light blue coloured medium

**Quantity of Medium**

8ml of medium in tubes

**pH**

7.20-7.60

**Sterility test**

Passes release criteria

**Cultural response**

Viability of following organisms was established for a period of 48 hours. Organisms grew luxuriantly when inoculated on Chocolate Agar(M103) and incubated at 35 - 37°C for 18-24 hours.
Organism | Recovery
---|---
*N. gonorrhoeae* ATCC 19424 | Luxuriant
*S. pneumoniae* ATCC 6303 | Luxuriant
*H. influenzae* ATCC 35056 | Luxuriant

**Storage and Shelf Life**
Store between 5 – 25°C with caps firmly screwed. DO NOT FREEZE. Use before expiry date on label.

**Reference**

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