Antibiotic Assay Medium H  M1665B

Antibiotic Assay Medium H is used for the microbiological turbidimetric assay of Apramycin using *Salmonella choleraesuis* as a test organism in accordance with British Pharmacopoeia.

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-Glucose</td>
<td>10.000</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>2.000</td>
</tr>
<tr>
<td>Tryptone</td>
<td>6.000</td>
</tr>
<tr>
<td>pH after sterilization</td>
<td>8.00±0.1</td>
</tr>
</tbody>
</table>

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

**Directions**

Suspend 18 grams in 1000 ml R-water/distilled/purified water. Heat if necessary to dissolve the medium completely.

Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle And Interpretation**

This medium is formulated in accordance to British Pharmacopoeia (1). This medium is employed for turbidimetric assay of Apramycin, an antibiotic of the aminocyclitol group, using *Salmonella choleraesuis*. Turbidimetric methods for determining the potency of antibiotics are inherently more accurate and more precise than comparable agar diffusion procedures.

Essential nutrients for growth of test organism is provided by Tryptone and yeast extract in this medium. D-Glucose serves as source of carbon to the test organism. Turbidimetric antibiotic assay is based on the change or inhibition of growth of a test microorganism in a liquid medium containing a uniform concentration of an antibiotic. Use of this method is appropriate only when test samples are clear.

**Quality Control**

**Appearance**

Cream to yellow coloured homogeneous free flowing powder

**Colour and Clarity of prepared medium**

Light yellow coloured clear solution in tubes

**pH**

pH of 1.8% w/v aqueous solution after sterilization. pH : 8.00±0.1

**Cultural Response**

M1665B: Cultural characteristics observed after an incubation at 37°C for 12-24 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
<th>Serial dilution with</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Salmonella choleraesuis</em></td>
<td>50-100</td>
<td>luxuriant</td>
<td>Apramycin</td>
</tr>
</tbody>
</table>

**Reference**


**Storage and Shelf Life**

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.