Modified Rappaport Vassiliadis Medium

Modified Rappaport Vassiliadis Medium is recommended selective for the isolation of *Salmonella* species from food and environmental specimens.

**Composition**

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein enzymic hydrolysate</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>8.000</td>
</tr>
<tr>
<td>Monopotassium phosphate</td>
<td>1.600</td>
</tr>
<tr>
<td>Magnesium chloride hexahydrate</td>
<td>40.000</td>
</tr>
<tr>
<td>Malachite green</td>
<td>0.040</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>5.2±0.2</td>
</tr>
</tbody>
</table>

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

**Directions**

Suspend 30.07 grams of dehydrated medium in 1000 ml distilled water. Heat gently if necessary to dissolve the medium completely. Dispense as desired into tubes and sterilize by autoclaving at 10 lbs pressure (115°C) for 15 minutes.

**Principle And Interpretation**

The original formulation described by Rappaport et al (1) with magnesium chloride hexahydrate was modified by Vassiliadis et al (2) by lowering the concentration of malachite green and raising the incubation temperature to 43°C. This medium is recommended as the selective enrichment medium for isolation of *Salmonella* from food and environmental specimens. Recently ISO committee has recommended the medium with casein enzymic hydrolysate for the detection of Salmonellae (3).

The test specimen is added to Buffered Peptone Water (M614) and incubated at 35°C for 16 - 20 hours. This pre-enriched peptone water culture is inoculated into Modified Rappaport Vassiliadis Medium and incubated at 42±1°C for 24-48 hours and further subcultured on Brilliant Green Agar (M016).

**Quality Control**

**Appearance**

Light yellow to light blue coloured homogeneous free flowing powder

**Colour and Clarity of prepared medium**

Blue coloured clear solution without any precipitate.

**Reaction**

Reaction of 3% w/v aqueous solution at 25°C. pH : 5.2±0.2

**pH**

5.00-5.40

**Cultural Response**

M1137I: Cultural characteristics observed after an incubation at specified temperature for 24-48 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Recovery at 37°C</th>
<th>Recovery at 42±1°C</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Escherichia coli ATCC 25922</em></td>
<td>50-100</td>
<td>fair</td>
<td>poor</td>
</tr>
<tr>
<td><em>Salmonella Paratyphi B ATCC 8759</em></td>
<td>50-100</td>
<td>good</td>
<td>good</td>
</tr>
<tr>
<td><em>Salmonella Typhi ATCC 6539</em></td>
<td>50-100</td>
<td>fair-good</td>
<td>fair</td>
</tr>
</tbody>
</table>
Salmonella Typhimurium  ATCC 14028

50-100 luxuriant luxuriant

Storage and Shelf Life
Store below 30°C in tightly closed container and use freshly prepared medium. Use before expiry date on the label.

Reference

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