Cooked Meat Medium (R.C.Medium) is used for cultivation of aerobes and anaerobes, especially pathogenic Clostridia and also for the maintenance of stock cultures.

**Composition**

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef heart, infusion from</td>
<td>500.000</td>
</tr>
<tr>
<td>Peptic digest of animal tissue</td>
<td>5.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>2.500</td>
</tr>
</tbody>
</table>

**Final pH (at 25°C)** 7.8±0.2

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

**Directions**

Suspend 11.54 grams in 100 ml distilled water. Mix thoroughly and allow to stand for 15 minutes until all the particles are thoroughly wetted. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle And Interpretation**

Cooked Meat Medium was originally developed by Robertson (1) for the cultivation of certain anaerobes isolated from wounds. The present formulation is recommended by BIS for the detection and enumeration of bacteria responsible for food poisoning especially *Clostridium welchii* (2). This medium with addition of further 10% Sodium chloride is used as a salt medium for isolation of Staphylococci (3). It is used for cultivation and maintenance of Clostridia and for determining proteolytic activity of anaerobes (4,5). FDA has recommended a slight modification of this medium for enumeration and identification of *Clostridium perfringens* from foods (6).

Cooked Meat Medium contains beef heart, the muscle protein which provides amino acids and other nutrients. It also contains glutathione a reducing substance which permits the growth of obligate anaerobes. The sulphhydryl groups which impart reducing effect are more available in denatured protein and hence the cooked meat is added in the medium. The growth in this medium is indicated by the turbidity or bubble formation by some organisms. Blackening and disintegration of the meat particles indicate proteolysis. For best results, medium should be used on the day it is prepared, otherwise it should be boiled or steamed for a few minutes and allowed to cool without agitation and then inoculated.

**Quality Control**

**Appearance**
Brown coloured granules

**Colour and Clarity of prepared medium**
Medium amber coloured clear to slightly opalescent supernatant over insoluble granules.

**Reaction**
Reaction of 11.54% w/v aqueous suspension at 25°C. pH : 7.8±0.2

**pH**
7.60-8.00

**Cultural Response**
Cultural characteristics observed after an incubation at 35°C for 40 - 48 hours.

<table>
<thead>
<tr>
<th>Organism</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Clostridium botulinum</em></td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>

ATCC 25763

Please refer disclaimer Overleaf.
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Technical Data

<table>
<thead>
<tr>
<th>Organism</th>
<th>Titer</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clostridium perfringens ATCC 12924</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Clostridium sporogenes ATCC 11437</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Enterococcus faecalis ATCC 50-100 29212</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Streptococcus pneumoniae ATCC 6303</td>
<td>50-100</td>
<td>luxuriant</td>
</tr>
</tbody>
</table>

Storage and Shelf Life
Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

Revision : 2 / 2015

Disclaimer:
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