HiVeg™ Infusion

**Principle And Interpretation**

HiVeg™ Infusion is dehydrated infusion obtained from vegetable proteins under controlled conditions. Growth supporting properties of this infusion is comparable with Heart Infusion Powder (RM191). Used in media employed for cultivation of fastidious organisms, like *Brucella* species, *Mycoplasma*, Pneumococci, Gonococci, Meningococci, *Actinomyces*, fungi, etc. and mass cultivation of microorganisms for the preparations of vaccines and antibiotic sensitivity test.

**Quality Control**

**Appearance**
Light yellow to yellow, may have a slight green tinge homogeneous free flowing powder, having characteristic odour but not putrescent.

**Solubility**
Freely soluble in distilled/purified water, insoluble in alcohol and ether.

**Clarity**
1% w/v aqueous solution is clear to slight opalescent after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Reaction**
Reaction of 2% w/v aqueous solution at 25°C.

**pH**
5.50- 7.50

**Microbial Load:**

**Total aerobic microbial count (cfu/gm)**
By plate method when incubated at 30-35°C for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

**Total Yeast and mould count (cfu/gm)**
By plate method when incubated at 20-25°C for not less than 5 days.

Yeast & mould Count : <= 100 CFU/gram

**Test for Pathogens**

**Indole Test**
Tryptophan content: Passes

**Cultural Response**
Cultural response was observed an incubation at 35-37°C for 18-48 hours on HI Agar, HiVeg™ (MV169) using HiVeg™ infusion powder as an ingredient.

**Cultural Response**

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth w/o blood</th>
<th>Growth with 5% blood</th>
<th>Haemolysis</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Staphylococcus aureus</em> ATCC 25923</td>
<td>Good-luxuriant</td>
<td>Luxuriant</td>
<td>Beta</td>
</tr>
<tr>
<td><em>Neisseria meningitidis</em> ATCC 13090</td>
<td>Good-luxuriant</td>
<td>Luxuriant</td>
<td>None</td>
</tr>
<tr>
<td><em>Streptococcus pneumoniae</em> ATCC 6303</td>
<td>Good-luxuriant</td>
<td>Luxuriant</td>
<td>Alpha</td>
</tr>
<tr>
<td><em>Streptococcus pyogenes</em> ATCC 19615</td>
<td>Good-luxuriant</td>
<td>Luxuriant</td>
<td>Beta</td>
</tr>
</tbody>
</table>
Chemical Analysis

- Total Nitrogen \( \geq 11.0\% \)
- Amino Nitrogen \( \geq 3.80\% \)
- Sodium chloride \( \leq 3.50\% \)
- Loss on drying \( \leq 7.0\% \)
- Residue on ignition \( \leq 11.0\% \)

Storage and Shelf Life

Store between 10 - 30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources. Seal the container tightly after use.

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