HiVeg™ Infusion No. 1

It can be employed for cultivation of fastidious anaerobic bacteria like Brucella, Streptococcus species. It can be used for bulk production of vaccines.

**Principle And Interpretation**

HiVeg Infusion No. 1 is a dried infusion of vegetable origin. It is processed under controlled conditions to retain all nutritive values. Growth response of this vegetable infusion is comparable to liver infusion powder.

**Quality Control**

**Appearance**
Light yellow to yellow may have slight green tinge Homogenous Free flowing powder,having Characteristic odour but not putrescent.

**Solubility**
Freely soluble in distilled water, insoluble in alcohol.

**Clarity**
1% w/v aqueous solution is clear without any haziness 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**
1. E.coli-Negative in 10 gms of sample
2. Salmonella species-Negative in 10 gms of sample
3. Pseudomonas aeruginosa-Negative in 10 gms of sample
4. Staphylococcus aureus- Negative in 10 gms of sample
5. C.albicans- Negative in 10 gms of sample
6. Clostridia- Negative in 10 gms of sample

**Indole Test**
Tryptophan Test: Passes

**Cultural response**
Cultural response observed after an incubation at 35-37°C for 24-48 hours by preparing Liver Infusion HiVeg Agar (MV374) using HiVeg Infusion No.1, as an ingredient.

**Cultural Response**

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Brucella melitensis ATCC 4309</em></td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Brucella suis ATCC 6597</em></td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Streptococcus mitis ATCC 9895</em></td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Clostridium sporogenes ATCC 11437</em></td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>
Chemical Analysis

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen</td>
<td>&gt;= 11.0%</td>
</tr>
<tr>
<td>Amino Nitrogen</td>
<td>&gt;= 3.50%</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>&lt;= 5.0%</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>&lt;= 6.0%</td>
</tr>
<tr>
<td>Residue on ignition</td>
<td>&lt;= 12.50%</td>
</tr>
</tbody>
</table>

Storage and Shelf Life

Store below 30°C. Use before expiry date on the label.