HiVeg Peptone F

It can be used in industrial fermentations specially supporting growth of Actinomyces species.

**Principle And Interpretation**

HiVeg Peptone F is manufactured under controlled conditions from vegetable proteins which is rich in nutritional values which is almost equivalent to cotton seed extract.

**Quality Control**

**Appearance**
Off white to light yellow Homogenous 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 remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

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

**pH**
6.00-7.00

**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 content: Passes

**Cultural response**

Cultural response observed after incubation at 35-37°C for 18 - 24 hours by preparing Actinomyces HiVeg Agar (MV341) using HiVeg Peptone F, as an ingredient.

**Cultural Response**

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Actinomyces israelii ATCC 10049</em>(Incubate Anaerobically)</td>
<td>luxuriant</td>
</tr>
<tr>
<td>Streptomyces achromogenes ATCC 12767</td>
<td>good</td>
</tr>
<tr>
<td>Streptomyces albus subsp albus ATCC 3004</td>
<td>good</td>
</tr>
<tr>
<td>Streptomyces lavendulae ATCC 8664</td>
<td>good</td>
</tr>
<tr>
<td><em>Actinomyces bovis ATCC 13683</em></td>
<td>good</td>
</tr>
</tbody>
</table>
Chemical Analysis

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen</td>
<td>&gt;= 9.50%</td>
</tr>
<tr>
<td>Amino Nitrogen</td>
<td>&gt;= 2.0%</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>&lt;= 5.0%</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>&lt;= 7.0%</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.