HiVeg™ Extract

RM002V

It can be used successfully in following culture media in place of Beef Extract: General purpose media: Beef Extract Agar, HiVeg (MV806) / HiVeg Broth (MV807) and Nutrient HiVeg Agar(MV001) / Broth (MV002) etc. Diagnostic media: CLED HiVeg Agar (MV352/MV792), DCLS HiVeg Agar (MV160), TSII HiVeg Agar (MV021), Wilson Blair HiVeg Agar Base (MV331), etc. Bulk production of antibiotics, enzymes and other products.

Principle And Interpretation

HiVeg Extract is prepared under controlled condition by extracting vegetable proteins. Its Recommended concentration for use is 0.3 - 0.5% w/v and the growth promoting properties are comparable to Beef Extract Powder (RM002).

Quality Control

Appearance
Light yellow to yellow, may have a slight green tinge Homogenous Free flowing powder, having Characteristic odour of protein, derived from vegetable source.

Solubility
Freely soluble in distilled/purified 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

Indole test
Tryptophan content: Passes

Cultural response
Cultural response observed after incubation at 35 - 37°C for 18-48 hours by preparing Nutrient HiVeg Agar (MV001),usingHiVeg Extract as an ingredient.

Cultural Response

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Escherichia coli</em> ATCC 25922</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Pseudomonas aeruginosa</em> ATCC 27853</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> ATCC 25923</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Salmonella Typhi</em> ATCC 6539</td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
**Streptococcus pyogenes**

*ATCC 19615*

**Chemical Analysis**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen</td>
<td>&gt;= 9.0%</td>
</tr>
<tr>
<td>Amino Nitrogen</td>
<td>&gt;= 3.0%</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%</td>
</tr>
</tbody>
</table>

**Storage and Shelf Life**

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