HiVeg™ Extract No. 1

RM003V

It is used as follows: General purpose media: Standard Nutrient HiVeg Media (MV877/ MV116), Staphylococcus Enrichment HiVeg Broth (MV464), Disinfectant Test HiVeg Broth (MV354). Diagnostic Media: Yersinia Isolation HiVeg Agar (MV564), Salmonella HiVeg Agar ÖNÖZ (MV573), Inositol Brilliant Green HiVeg Agar (MV574), etc. Bulk production of antibiotics, enzymes, steroid vaccines and other products of microbiological origin.

**Principle And Interpretation**

HiVeg Extract No. 1 is prepared under controlled conditions by extracting vegetable proteins. Cultural response is comparable with Meat extract powder (RM003). 0.3 - 0.5% concentration supports the growth of fastidious organisms, when combined with suitable vegetable peptones.

**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/purified water, insoluble in alcohol.

**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**
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 content: Passes

**Cultural response**
Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Yersinia Isolation HiVeg Agar (MV564) using HiVeg Extract No.1 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>none-poor</td>
</tr>
<tr>
<td><em>Proteus mirabilis</em> ATCC 25933</td>
<td>fair-good</td>
</tr>
<tr>
<td><em>Salmonella Typhimurium</em> ATCC 14028</td>
<td>fair-good</td>
</tr>
<tr>
<td><em>Shigella flexneri</em> ATCC 12022</td>
<td>none-poor</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
Yersinia enterocolitica  
ATCC 27729  
good-luxuriant

Chemical Analysis

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen</td>
<td>&gt;= 11.50%</td>
</tr>
<tr>
<td>Amino Nitrogen</td>
<td>&gt;= 3.50%</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>&lt;= 4.0%</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>&lt;= 7.0%</td>
</tr>
<tr>
<td>Residue on ignition</td>
<td>&lt;= 9.50%</td>
</tr>
</tbody>
</table>

Storage and Shelf Life

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