HiVeg™ Pea Hydrolysate is manufactured under controlled conditions from pea protein. It has very rich source of organic nitrogen. Ideal for industrial fermentations. It is excellent source as veg peptone for microbiological media.

**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**
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 incubation at 35-37°C for 18-24 hours by preparing Plate Count HiVeg Agar (MV091) using HiVeg Pea hydrolysate, as an ingredient.

**Cultural Response**

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Bacillus subtilis</em> ATCC 6633</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Enterococcus faecalis</em> ATCC 29212</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Escherichia coli</em> ATCC 25922</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Lactobacillus casei</em> ATCC 9595</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em> ATCC 25923</td>
<td>Luxuriant</td>
</tr>
<tr>
<td><em>Streptococcus pyogenes</em> ATCC 19615</td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>
Chemical Analysis

- Total Nitrogen: \( \geq 10.50\% \)
- AminoNitrogen: \( \geq 2.0\% \)
- Sodium chloride: \( \leq 5.0\% \)
- Loss on drying: \( \leq 5.0\% \)
- Residue on ignition: \( \leq 12.0\% \)

Storage and Shelf Life

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