Casitose Soya HM Peptone

Principle And Interpretation
Casitose Soya HM Peptone is a hydrolysate of both plant and animal proteins, that provides broad spectrum of peptides and amino acids that supports better microbiological growth characteristics. Its growth promoting properties are comparable to tryptone and soya peptone. It is rich in nitrogen and carbohydrates. It is equivalent to Casitose Soya Meat Peptone.

Quality Control

Appearance
Light yellow to brownish yellow 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
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. Escherichia 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. Candida 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 Nutrient Agar (M001) or Nutrient Broth (M002) using Casitose Soya HM Peptone 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>
<tr>
<td><em>Streptococcus pyogenes</em> ATCC 19615</td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
Chemical Analysis
Total Nitrogen \(\geq 12.0\%\)
Amino Nitrogen \(\geq 3.50\%\)
Sodium chloride \(\leq 6.0\%\)
Loss on drying \(\leq 5.0\%\)
Residue on ignition \(\leq 15.0\%\)

Storage and Shelf Life
Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources. Seal the container tightly after use.