Soya Peptone, Certified

Principle And Interpretation

Soya Peptone, Certified is the soluble end product of enzymic digestion of soyabean meal by Papain. Because of stimulatory properties associated with soya peptone it is ideally recommended as a growth stimulant for cultivation of fastidious microorganisms.

Quality Control

Appearance

Light yellow to brownish yellow, may have a slight green ting, homogenous free flowing powder, having characteristic odour but not putrescent

Solubility

Freely soluble in distilled/purified water, insoluble in chloroform.

Clarity

1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121ºC) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25ºC.

pH

5.90 - 6.90

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 35-37ºC for 18-24 hours by preparing Soyabean Casein Digest Medium (M011) using Soya Peptone, Certified as an ingredient.

Cultural response

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacteroides vulgatus ATCC 8482 (under anaerobic conditions)</td>
<td>Luxuriant</td>
</tr>
<tr>
<td>Pseudomonas aeruginosa ATCC 27853</td>
<td>Luxuriant</td>
</tr>
<tr>
<td>Staphylococcus aureus ATCC 25923</td>
<td>Luxuriant</td>
</tr>
<tr>
<td>Streptococcus pyogenes ATCC 19615</td>
<td>Luxuriant</td>
</tr>
<tr>
<td>Aspergillus brasiliensis ATCC 16404 (at 25-30ºC)</td>
<td>Luxuriant</td>
</tr>
<tr>
<td>Candida albicans ATCC 10231 (at 25-30ºC)</td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
**Bacillus subtilis** ATCC 6633  
**Enterococcus faecalis** ATCC 29212  
**Neisseria meningitidis** ATCC 13090  
**Proteus vulgaris** ATCC 13315  
**Salmonella Typhi** ATCC 6539  
**Shigella flexneri** ATCC 12022  
**Saccharomyces cerevisiae** ATCC 9763 (at 25-30°C)

**Chemical Analysis**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen</td>
<td>( \geq 9.0% )</td>
</tr>
<tr>
<td>Amino Nitrogen</td>
<td>( \geq 1.80% )</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>( \leq 5.0% )</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>( \leq 5.0% )</td>
</tr>
<tr>
<td>Residue on ignition</td>
<td>( \leq 22% )</td>
</tr>
</tbody>
</table>

**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 of ignition. Seal the container tightly after use.

Disclaimer:

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