HM Extract Powder, Certified

Principle And Interpretation
HM Extract Powder, Certified, is yields earlier and/or heavier growth of microorganisms. Being refined and clarified peptone, it can be used with other refined ingredients to make culture media. It can be used for General purpose media, Diagnostic media and for fermentation processes and other products of microbiological origin. It can also be used for bulk production of antibiotics and enzymes.

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 (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 30-35ºC for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

Total Yeast and mould count (cfu/gm)
By plate method when incubated at 20-25ºC 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 an incubation at 35-37ºC for 18-24 hours by preparing Sterility Medium A (M017) using HM Extract Powder, Certified as an ingredient.

Cultural response

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus subtilis ATCC 6633</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>Enterococcus faecalis ATCC 29212</td>
<td>Luxuriant</td>
</tr>
</tbody>
</table>
Chemical Analysis

Total Nitrogen  >= 11.50%
Amino Nitrogen  >= 3.20%
Sodium chloride  <= 6.0%
Loss on drying  <= 5.0%
Residue on ignition <= 20%

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.

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