HL Hydrolysate

Principle And Interpretation
HL Hydrolysate is prepared under controlled conditions to retain all the nutritive values. Its high nutritive value makes it an ideal ingredient of culture media employed for cultivation of fastidious anaerobic bacteria such as Clostridia, Bacteroides and Brucella. It is also recommended for large scale cultivation of these bacteria for the purpose of Vaccine production. It is equivalent to Liver Hydrolysate.

Quality Control
Appearance
Brownish yellow to brown homogenous free flowing powder, having characteristic odour but not putrescent.
Solubility
Freely soluble in purified/distilled water, insoluble in alcohol.
Clarity
1% w/v aqueous solution is clear without any 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 24-48 hours by preparing LIAgar (M374) using HL Hydrolysate, as an ingredient.

Cultural Response
Organism             Growth
Brucella melitensis ATCC 4309 Luxuriant
Brucella suis ATCC 6597 Luxuriant
Streptococcus mitis ATCC 9895 Luxuriant
Clostridium sporogenes ATCC 11437 Luxuriant
Chemical Analysis

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen</td>
<td>&gt;= 11.0%</td>
</tr>
<tr>
<td>Amino Nitrogen</td>
<td>&gt;= 3.50%</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>&lt;= 8.0%</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>&lt;= 6.0%</td>
</tr>
<tr>
<td>Residue on ignition (as Sulphate)</td>
<td>&lt;= 12.50%</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:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.