



HL Hydrolysate

RM023

Intended use

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.

Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. It is biological origin product since variation in colour of powder and clarity may observed.
2. Each lot of the product has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's requirement.
3. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium prepared by the product

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

- **Appearance** : Brownish yellow to brown homogenous free flowing powder characteristic odour but not putrescent.
- **Solubility** : Freely soluble in purified/ distilled water, insoluble in alcohol.
- **Clarity** : 1% w/v aqueous solution is clear to slight opalescent may developed precipitate after autoclaving at 15 lbs pressure (121°C) for 15 minutes.
- **pH** : pH of 2% w/v aqueous solution at 25°C 6.0- 7.0
- **Microbial Load** :
 - Bacterial Count : <= 2000 CFU/gram by plate method, when incubated at 30-35°C for not less than 3 days
 - Yeast & mould Count : <= 100 CFU/gram by plate method, when incubated at 20-25°C for not less than 5 days.
- Test for pathogens** : 1. *Escherichia coli*- Absent/gram of sample 2. *Salmonella* species- Absent/10 gram of sample 3. *Pseudomonas aeruginosa*- Absent/gram of sample 4. *Staphylococcus aureus*- Absent/gram of sample 5. *Candida albicans*- Absent/gram of sample 6. *Clostridia*- Absent/gram 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 LI Agar (M374) using HL Hydrolysate, as an ingredient.

Cultural Response

Organism	Growth
<i>Clostridium perfringens</i> ATCC 12924	Luxuriant
<i>Clostridium sporogenes</i> ATCC 11437	Luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	Luxuriant

Chemical Analysis :

Total nitrogen : ≥ 11.00 %

Amino Nitrogen : ≥ 3.50 %

Sodium Chloride : ≤ 8.00 %

Loss on drying : ≤ 6.00 %

Residue on ignition : ≤ 15.00 %

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.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.



Storage temperature



Do not use if package is damaged



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Disclaimer :

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