



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Liver Hydrolysate

Product Code: BA2023

Principle & 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.

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, 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



Dehydrated Culture Media
Bases / Media Supplements

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 LI Agar (DM1374) using HL Hydrolysate, as an ingredient.

Cultural response

Organism

Brucella melitensis ATCC4309

Brucella suis ATCC 6597

Streptococcus mitis ATCC9895

Clostridium sporogenes ATCC 11437

Growth

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Chemical Analysis

Total Nitrogen $\geq 11.0\%$

Amino Nitrogen $\geq 3.50\%$

Sodium chloride $\leq 8.0\%$

Loss on drying $\leq 6.0\%$

Residue on ignition(as Sulphate) $\leq 12.50\%$

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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate.
- **Central Drug House 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 diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- 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.
- Do not use the products if it fails to meet specifications for identity and performance parameters.