HL Hydrolysate

RM023

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 (121ºC) for 15 minutes.

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

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**
Cultural response	
Brucella melitensis ATCC 4309	Luxuriant
Brucella suis ATCC 6597	Luxuriant
Streptococcus mitis ATCC 9895	Luxuriant
Clostridium sporogenes ATCC 11437	Luxuriant

Chemical Analysis

Total Nitrogen	>= 11.0%
AminoNitrogen	>= 3.50%
Sodium chloride	<= 8.0%
Loss on drying	<= 6.0%
Residue on ignition(as Sulphate)	<= 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.

CE