



HL Extract Powder

RM326

Principle And Interpretation

HL Extract Powder is processed under controlled conditions to retain all the nutritive values of liver. It is incorporated in media which are used for the growth of fastidious anaerobic organisms. Also used for bulk production of vaccines, steroids and enzymes. It is equivalent to Liver Extract powder,

Quality Control

Appearance

Brownish yellow to brown homogenous free flowing powder, having characteristic odour but not putrescent.

Solubility

Freely soluble in distilled water, insoluble in alcohol and ether.

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

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing LI Agar (M374) using HL Extract Powder as an ingredient.

Cultural Response

Organism	Growth
<i>Brucella melitensis</i> ATCC 4309	Luxuriant
<i>Brucella suis</i> ATCC 6597	Luxuriant
<i>Streptococcus mitis</i> ATCC 9895	Luxuriant
<i>Clostridium sporogenes</i> ATCC 11437	Luxuriant

Chemical Analysis

Total Nitrogen	>= 9.50%
Amino Nitrogen	>= 3.50%
Sodium chloride	<=10.0%
Loss on drying	<= 6.0%
Residue on ignition	<= 15.0%

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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Disclaimer :

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