



Lactalbumin Hydrolysate

RM012

Intended use

Lactalbumin Hydrolysate is prepared by the enzymic digest of milk protein. Being rich in essential amino acids it is used to supplement fermentation media. It is rich in tryptophan content, therefore, used in Indole test. It is included in preparation of baculovirus serum free medium for production of recombinant protein. It is also used in production of lactobacilli and as a supplement in special diets. It can be used as a substrate for many microorganisms.

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** : Off white to yellow homogenous free flowing powder characteristic odour
- **Solubility** : Freely soluble in distilled/ purified water, insoluble in alcohol, chloroform and ether.
- **Clarity** : 1% w/v aqueous solution is clear without any haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.
- **pH** : pH of 2% w/v aqueous solution at 25°C 5.9 -6.9
- **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 16-24 hours by preparing B12 culture Agar (M035) using Lactalbumin Hydrolysate as an ingredient.

Cultural Response

Organism	Growth
<i>Lactobacillus leichmannii</i> ATCC 7830	Good-luxuriant
<i>Lactobacillus rhamnosus</i> ATCC 9595	Luxuriant
<i>Lactobacillus plantarum</i> ATCC 8014	Good - Luxuriant
<i>Weissella viridescens</i> ATCC 12706 (WDCM 00105)	Luxuriant

Chemical Analysis :

Total nitrogen : ≥ 11.00 %

Amino Nitrogen : ≥ 5.00 %

Sodium chloride : ≤ 5.00 %

Loss on drying : ≤ 5.00 %

Residue on ignition : ≤ 12.00 %

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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