

Lactalbumin Hydrolysate

Gamma irradiated

Cell Culture Tested

Product Code: TC367G

Product Description:

Lactalbumin hydrolysate is prepared by the enzymatic digest of milk protein lactalbumin. It is rich in essential amino acids and is a reservoir of nitrogen, vitamins, and carbon. Enhanced processing of the hydrolysate ensures consistence performance and provides a highly soluble source of amino acids and peptides.

Lactalbumin hydrolysate is used as a nutritional supplement to culture mammalian as well as insect cells due to its growth stimulating ability. It is used to reduce serum requirements in culture media and is also a common ingredient of vaccine production media.

TC367G is Gamma irradiated Lactalbumin hydrolysate with 25kGy dose. Gamma irradiation process provides greater assurance that any existing low level of microorganisms will be inactivated or reduced and the risk associated with animal-derived components are minimized

Quality Control:

Appearance

Off-white to yellow free flowing powder

Solubility

Freely soluble in water, insoluble in alcohol, chloroform and ether

pH (2% w/v aqueous solution)

5.90 - 6.90

Total Nitrogen

NLT 11.0%

Amino Nitrogen

NLT 5.0%

Sodium chloride

NMT 5.0%

Loss on Drying

NMT 5.0%

Residue on Ignition

NMT 7.5%

Disclaimer:

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Cell Culture Test

The growth promotion capacity of lactalbumin hydrolysate is assessed by supplementing an appropriate medium with test lactalbumin hydrolysate and qualitatively analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Microbial Tests:

1. Total Aerobic Microbial Count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days

Bacterial count: NMT 2000 CFU/gram

2. Total Yeast and Mould Count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days

Yeast and mould count: NMT 100 CFU/gram

3. Test for Pathogens

Organism	Result (in 10g sample)
<i>Escherichia coli</i>	Negative
<i>Salmonella</i> species	Negative
<i>Pseudomonas aeruginosa</i>	Negative
<i>Staphylococcus aureus</i>	Negative
<i>Candida albicans</i>	Negative
Clostridia	Negative

Storage and Shelf Life:

Hygroscopic powder.

Store at room temperature in air tight container in dry area.

Protect from light and moisture.

Use before expiry date given on product label.

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