

## 1242V -VEG.VEG.LACTALBUMIN HYDROLYSATE (Culture Media Ingredient)

### INTENDED USE

For used as an ingredient in tissue culture media, fermentation media, media for the growth of lactobacilli and in media for the growth of Campylobacter spp. it provides nitrogen, amino acids, vitamins, and carbon in microbiological culture media.

### PRODUCT SUMMARY AND EXPLANATION

It is used as an amino acid replacement. This peptone is obtained by a pancreatic digest of lactalbumin and whey protein. Due to the high content of essential amino acids, it is used in microbiological and tissue culture media formulations. It is Creamish to light yellowish colour, free flowing powder having characteristic odor but not pungent smell. Moreover, it is Soluble in distilled water, clear, Insoluble in alcohol.

### PRINCIPLE

Veg.Lactalbumin Hydrolysate is the enzymatically hydrolyzed protein portion of milk whey. It is a mixture of peptides, amino acids and carbohydrates, simple and complex. It is used for preparing bacterial, insect and mammalian cell culture media

### INSTRUCTION FOR USE

Veg.Lactalbumin Hydrolysate used as an ingredient in tissue culture media, fermentation media, media for the growth of lactobacilli and in media for the growth of Campylobacter spp. It is also useful for indole testing because of its high tryptophan content. It is also useful for fermentation media and most commonly used in production of vaccine.

### QUALITY CONTROL SPECIFICATIONS

<b>Appearance</b>	:	Creamish to light yellowish colour, free flowing powder having characteristic odour but not pungent smell.
<b>Solubility (2% soln. at 25°C)</b>	:	Soluble in distilled water, clear. Insoluble in alcohol
<b>Clarity (2% Soln. at 121°C)</b>	:	Clear solution. No ppt
<b>pH (2% Soln. at 25°C)</b>	:	6.5 – 7.5
<b>Loss on drying ( at 105 °C)</b>	:	NMT – 6.0%
<b>Total Nitrogen (DWB)</b>	:	NLT – 12.0%
<b>αAmino Nitrogen</b>	:	NLT – 4.5%
<b>Total Ash</b>	:	NMT – 10.0%
<b>Chloride (as NaCl )</b>	:	NMT – 5.0%
<b>Indole Test</b>	:	Positive
<b>Microbial Test</b>	:	Passes Test
<b>Growth Promotion Test</b>	:	Passes Test

### INTERPRETATION

Cultural Characteristic observed in 2% Lactalbumin Hydrolysate and 1.5% agar after incubation at 35-37°C for 18-24 hours.

Microorganism	ATCC	Growth w/o blood	Growth
<i>Staphylococcus aureus</i>	6538	50-100	Luxuriant
<i>Escherichia coli</i>	8739	50-100	Luxuriant
<i>Bacillus subtilis</i>	6633	50-100	Luxuriant
<i>Enterococcus faecalis</i>	29212	50-100	Luxuriant
<i>Lactobacillus casei</i>	9595	50-100	Luxuriant

<i>Streptococcus pyogenes</i>	19615	50-100	Luxuriant
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### PACKAGING

Standard packing is 500gm in plastic bottle. After packing tightly closed in a dry and well-ventilated place.

### STORAGE

Store at room temperature in cool place, Keep plastic bottle tightly closed in a dry and well-ventilated place. 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.

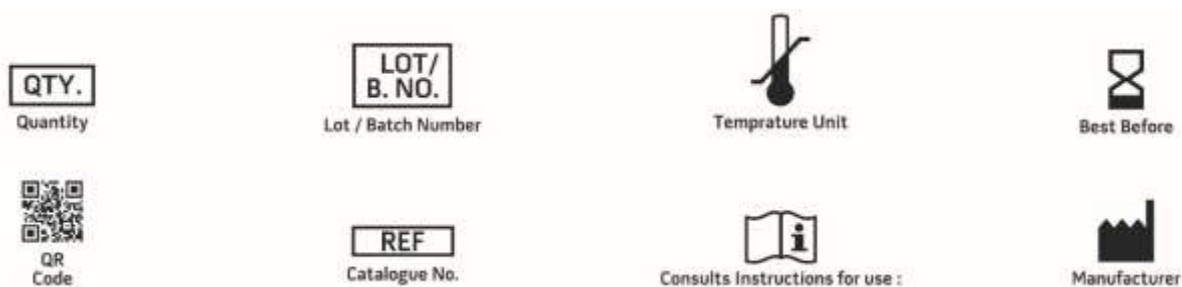
**Product Deterioration:** Do not use product if any contamination, discoloration or other sign of deterioration is found.

### DISPOSAL

After use, contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

### REFERENCES

1. Bridson and Brecker. 1970. Design and formulation of microbial culture media. In Norris and Ribbons (ed.), Methods in microbiology, vol. 3A. Academic Press, New York.



**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
Revision: 05<sup>th</sup> Oct. 2019