

CM 24037 - VEG.CASEIN ENZYMATIC HYDROLYSATE (STD) TBL POWDER (Culture Media Ingredient)

INTENDED USE

Used in the preparation of variety of culture media such as sterility testing media, diagnostic media and media for biochemical characterization.

PRODUCT SUMMARY AND EXPLANATION

Veg. Casein enzymatic hydrolysate is a pancreatic hydrolysate of casein. This hydrolysate contains, in the form of mixed amino acids and peptides, all amino acids originally present in casein. It is a refined product providing high quality soluble source of amino acids, polypeptides and peptides.

PRINCIPLE

Veg Casein Enzymatic Hydrolysate (STD) TBL Powder is obtained by enzymatic hydrolysis of Veg. Casein enzymatic hydrolysate is the main milk protein and a rich source of amino nitrogen. It is used to support the growth of fastidious microorganisms and also suitable for use in fermentation studies.

INSTRUCTION FOR USE

Veg Casein enzymatic hydrolysate (STD) TBL Powder Use as a nutrient for laboratory media and in production of antibiotics and enzymes.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Off white to Creamish yellow colour, free flowing powder having characteristic odour but not pungent smell.
Solubility (2% Soln. at 25°C)	:	Soluble in distilled Water, Clear. Insoluble in alcohol.
Clarity (2% Soln. at 121°C)	:	Absolute clear solution. No ppt.
pH (2% Soln. at 25°C)	:	6.5 – 7.5
Loss on drying (at 105°C)	:	NMT – 5.0%
Total Nitrogen (DWB)	:	NLT – 13.0%
α-Amino Nitrogen	:	NLT – 3.5%
Total Ash	:	NMT – 12.0%
Chloride (as NaCl)	:	NMT – 5.0%
Indole Test	:	Positive
Microbial test	:	Passes Test
Growth Promotional Test	:	Passes Test

INTERPRETATION

Cultural Characteristic observed in 2% veg. tryptone (std) tbl powder and 1.5% agar after incubation at 35-37°C for 18-24 hours.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
Enterobacter aerogenes	13048	Luxuriant	Negative reaction
Escherichia coli	8739	Luxuriant	Positive reaction
Klebsiella pneumoniae	13883	Luxuriant	Negative reaction

PACKAGING:

Standard packing is 100gm, 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.

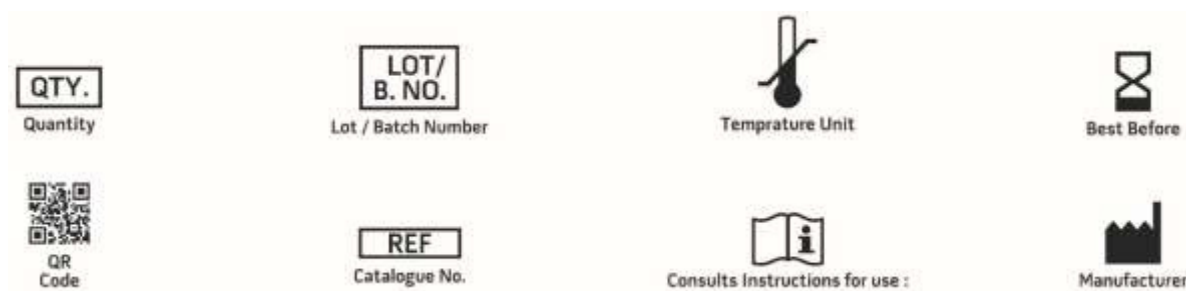
Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

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

REFERENCES

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
2. U.S. Food and Drug Administration. 2001. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md



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

*For Lab Use Only