

1501– CASITONE

(Peptic Digest Casein With Dipeptides and Tripeptides)

INTENDED USE

Casitone is used in preparing microbiological culture media requiring free amino acids, especially for toxin and vaccine production.

PRODUCT SUMMARY AND EXPLANATION

Casitone is pancreatic digest of casein. It is recommended for preparing media where an enzymatic hydrolyzed casein is desired. The manufacturing process for an enzymatic digest of casein is not as destructive as an acid hydrolysis. Thus, the casein is not broken down as completely into its constituent components. Casein is a rich source of amino nitrogen. Casitone is used to growth of fastidious microorganisms and also it's suitable for use in fermentation studies.

PRINCIPLE

Casitone is pancreatic digest of casein. It is the main milk protein and a rich source of amino acid protein. It can be used as a component in microbiological culture media or in fermentation applications.

INSTRUCTION FOR USE

Casitone is recommended for preparing of media for sterility testing. It is used as nitrogen source in enumerating of coliforms media such as m-Endo Agar, m-Endo Broth, Dubos Broth for growth of *Mycobacterium*. Since high tryptophan content of casitone it's make valuable use for detecting indole.

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)	:	Clear solution. No ppt.
pH (2% Soln. at 25°C)	:	6.5 – 7.5
Loss on drying (at 105°C)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 7.5%
α-Amino Nitrogen	:	NLT – 3.5%
Total Ash	:	NMT – 40.0%
Sodium Chloride (NaCl)	:	NMT – 38.0%
Heavy Metals (Pb)	:	NMT- 20ppm
Indole Test	:	Negative
Microbial test	:	Passes Test

TEST	SOLUTION	ORGANISM	ATCC	RESULT
Hydrogen Sulfide Production	1%	Salmonella Typhimurium	14028	Positive
Indole Production	1%	Escherichia coli	29552	Positive

INTERPRETATION

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Tryptone Broth using Casitose as an ingredient.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth
<i>Staphylococcus aureus</i>	25923	50-100	Poor to Fair
<i>Escherichia coli</i>	25922	50-100	Good - Luxuriant
<i>Pseudomonas aeruginosa</i>	27853	50-100	Good - Luxuriant
<i>Bacillus subtilis</i>	6633	50-100	Poor to Fair
<i>Salmonella typhi</i>	6539	50-100	Good - Luxuriant
<i>Streptococcus pyogenes</i>	19615	50-100	Good - Luxuriant

PACKAGING:

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

STORAGE

Keep plastic bottle tightly closed in a dry and well-ventilated place, Store in cool 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 plastic bottle after use.

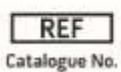
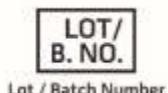
Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

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

REFERENCES

1. Wen and Chen. 2001. Enzyme Microbiol Technol. 29:341. 7. U.S. Food and Drug Administration. 2001. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md.
2. 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.
3. Horowitz (ed.). 2007. Official methods of analysis of AOAC International, 18th ed., 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
Revision: 05th Oct. 2019

