1509 - PROTEOSE PEPTONE
(Tryptic Digest Animal Tissue)
Rich in Proteose's Peptides

INTENDED USE

Proteose Peptone, Rich in Proteose's Peptides . Used in microbiological culture media and in bacterial toxin production.

PRODUCT SUMMARY AND EXPLANATION

Proteose Peptone used as a component of microbiological culture media. It is particularly suitable for those supplemented media, which are intended to recover and support fastidious microorganisms. This peptone is good source of nitrogen when used as the base peptone in culture media. Proteose Peptone Provides essential mineral elements, nitrogen, and amino acids in microbiological culture media

PRINCIPLE

Proteose Peptone is enzymatic digests of protein. It is used in preparing microbiological culture media and in producing bacterial toxins and also it is usable for culture fastidious microorganisms. Proteose Peptone is a spray-dried version of Proteose Peptone. These proteose peptone products provide nitrogen in a form that is readily available for bacterial growth

INSTRUCTION FOR USE

- Used in preparing microbiological culture media and in producing bacterial toxins
- Used in preparing microbiological culture media
- Used in preparing microbiological and mammalian cell culture media
- Proteose Peptone is a spray-dried version of Proteose Peptone. It offers the same beneficial nutrients as Proteose peptone for growth promotion and toxin production in a wide range of fastidious microorganisms.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Off white to Creamish yellow colour, free flowing powder having characteristic odour but not pungent smell.
Solubility (2% Soln. at 25ºC)	:	Completely soluble in distilled Water, Clear. Insoluble in alcohol.
pH (2% Soln. at 25 ºC)	:	6.5 – 7.5
Loss on drying (at 105 ºC)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 12.5%
α-Amino Nitrogen	:	NLT – 2.5%
Total Ash	:	NMT – 10.0%
Chloride (as NaCl)	:	NMT – 5.0%
Proteose Peptide		Positive
Microbial Parameter	:	Passes Test
Growth Promotion 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 Characteristic observed in 2% Proteose Peptone and 1.5% agar after incubation at 35-37°C for 18-24 hours.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
Staphylococcus aureus	25923	50-100	Good - Luxuriant
Escherichia coli	25922	50-100	Good - Luxuriant
Streptococcus pneumoniae	6303	50-100	Good - Luxuriant
Clostridium perfringens	12924	50-100	Good - Luxuriant
Salmonella typhi	6539	50-100	Good - Luxuriant
Streptococcus pyogenes	19615	50-100	Good - Luxuriant

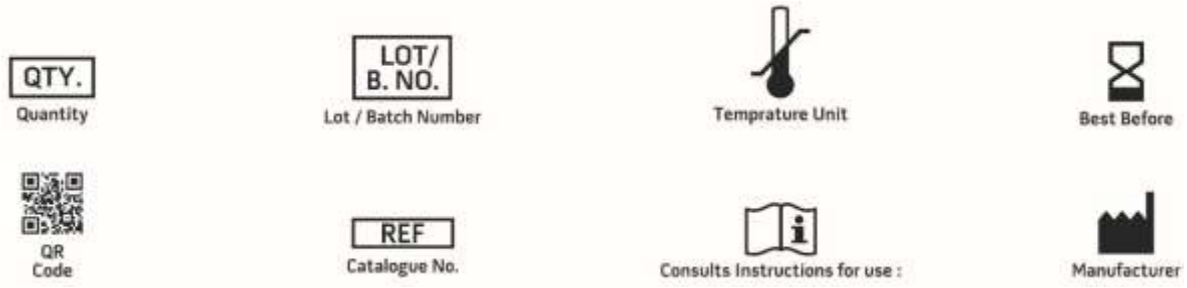
PACKAGING:
Standard packing is 500gm, 5kg in plastic bottle &Drum. After packing tightly closed in a dry and well-ventilated place.

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 licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

REFERENCES
1.Kirkbride, Berthelsen and Clark. 1931. Comparative studies of infusion and infusion-free diphtheria toxin in antitoxin production and in standardization by the flocculation, subcutaneous, and intracutaneous tests. J. Immunol. 21:1-20.
2. Hazen and Heller. 1931. Further studies upon the effect of various carbohydrates on production of diphtheria toxin with special reference to its flocculating titer and final pH. J. Bacteriol. 23:195-209



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

***For Lab Use Only**
Revision: 05th Oct. 2019