1527 - PEPTONE PASTE
(Bacteriological Grade)

INTENDED USE

Peptone Paste used in the preparation of culture media employed for cultivation of a wide variety of microorganisms.

PRODUCT SUMMARY AND EXPLANATION

Peptone Pasteis used in preparing microbiological culture media and in producing bacterial toxins and also usable in synthetic media in acclimatization of microorganisms in bioreactor studies. It's support to growth of Staphylococci, Streptococci, Pneumococci and also suitable for isolating and cultivating Haemophilus and Neisseria. It is off white to Creamish yellow colour, free flowing powder having characteristic odour but not pungent smell. It is completely soluble in distilled Water, Clear. Insoluble in alcohol.

PRINCIPLE

Peptone Pasteis enzymatic digest of protein used in preparing microbiological culture media and in producing bacterial toxins. Proteose peptone provide nitrogen in a form that is readily available for bacterial growth. It is superior in nutritious of fastidious microorganism.

INSTRUCTION FOR USE

Peptone Paste is used in media for the production of bacterial toxins. It is used in preparing chocolate agar for propagating of Neisseria species. It is also used for the cultivation of bacteria with high nutritional requirements, as for example Haemophilus , Salmonella, staphylococcus etc. species.

QUALITY CONTROL SPECIFICATIONS

Appearance	**:**	Dark tan colour thick paste having characteristic odour but not pungent smell.
Solubility (2% Soln. at 25ºC)	**:**	Soluble in distilled water, clear..
pH (2% Soln. at 25 ºC)	:	6.5 – 7.5
Total Solid Contents	:	NLT – 65.0%
Total Nitrogen (DWB)	:	NLT – 8.0%
α-Amino Nitrogen	:	NLT – 1.5%
Total Ash	:	NMT – 8.0%
Chloride (as NaCl)	:	NMT – 5.0%
Indole Test	:	Positive
Microbial Parameter	:	Passes Test
Growth Promotion Test	:	Passes Test

INTERPRETATION

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

Microorganism	ATCC	Growth
Neisseria meningitidis	13090	Fair
Staphylococcus aureus	6538	Good
Staphylococcus epidermidis	12228	Good
Streptococcus pneumoniae	6303	fair-good
Streptococcus pyogenes	19615	fair-good

Neisseria meningitidis	13090	Fair

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

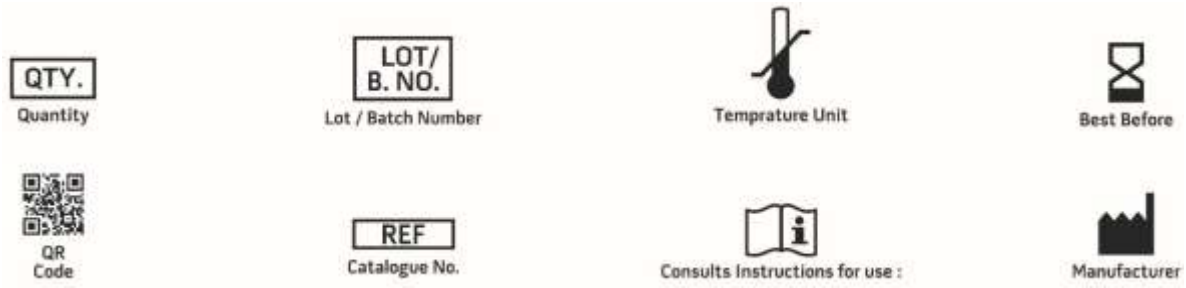
STORAGE
Keep plastic bottle tightly closed in a dry and well-ventilated place, Store in cool place. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the plastic bottle after use.

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

DISPOSAL
After use, contact a 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