1506 -PEPTONE-R
(Regular Bacteriological Grade)

INTENDED USE

Peptone –R is used in culture media for cultivation of a variety of bacteria and fungi, and use for commercial production of enzymes, antibiotics, and other products.

PRODUCT SUMMARY AND EXPLANATION

Peptone –R used as an organic nitrogen source in microbiological culture media for cultivation of a variety of bacteria and fungi. It is used as a supplement in cell culture with serum. It support good growth of wide variety of microorganisms, and can be used for identification of bacteria by performing various biochemical tests. It is Light yellowish to brownish yellow color free flowing powder having characteristic meat odor but not pungent smell and solubility is Soluble in distilled water, clear.

PRINCIPLE

Peptone –R is an enzymatic digest of animal protein. Peptone contains nitrogen in a form that is readily available for bacterial growth. Peptone has a high peptone and amino acid content, with only a negligible quantity of proteoses and more complex nitrogenous constituents. Being highly nutritious it supports good growth of wide variety of microorganisms and can be used for identification of bacteria by performing various biochemical tests.

INSTRUCTION FOR USE

Used in various general and diagnostic media, also for large-scale production of enzymes, antibiotics, and other products.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light yellowish to brownish yellow color free flowing powder having characteristic meat odor but not pungent smell.
Solubility (2% soln. at 25ºC)	:	Soluble in distilled water, clear.
Clarity (2% Soln. at 121ºC)	:	Clear solution. No ppt.
pH (2% Soln. at 25ºC)	:	6.5 – 7.5
Loss on drying (at 105ºC)	:	NMT – 5.0%
Total Nitrogen (DWB)	:	NLT – 14.0%
α-Amino Nitrogen	:	NLT – 2.5%
Total Ash	:	NMT – 10.0%
Chloride (as NaCl)	:	NMT – 5.0%
Indole Test	:	Positive
Microbial 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	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Staphylococcus aureus	25923	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Escherichia coli	25922	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Pseudomonas aeruginosa	27853	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Bacillus subtilis	6633	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours

Salmonella typhi	6539	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Streptococcus pyogenes	19615	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours

PACKAGING:

Standard packing is 500gm, 5kg in plastic bottle & drum. 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.

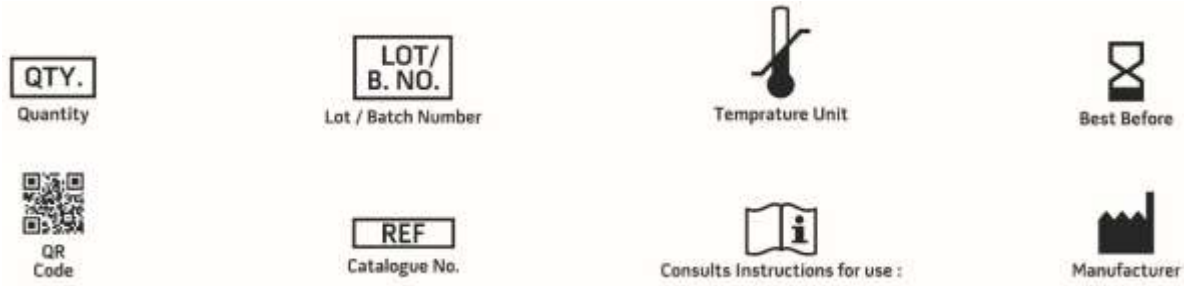
Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

After use, contact a licenced professional waste disposal service to dispose off 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. Department of Agriculture. Microbiology laboratory guidebook, online. Food Safety and Inspection Service, USDA, Washington, D.C.



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

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