

3542- PEPTONE- POWDER (Bacteriological Grade)

INTENDED USE

Peptone Powder 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 Powder 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 Powder is enzymatic digest of protein used in preparing microbiological culture media and in producing bacterial toxins. 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 Powder 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 : Light yellowish to brownish yellow color free flowing

powder having characteristic odor but not pungent smell.

Solubility (2% soln. at 25°C) : Soluble in distilled water, clear.

Clarity (2% Soln. at 121°C) : Clear solution. No ppt.

pH (2% Soln. at 25° C) : 6.5-7.5Loss on drying (at 105° C) : NMT-5.0%Total Nitrogen (DWB) : NLT-12.0% α -Amino Nitrogen : NLT-1.5%Total Ash : NMT-10.0%Chloride (as NaCl) : NMT-5.0%Microbial Test : Passes test

INTERPRETATION

Cultural Characteristic observed in 2% Peptone Powder (Bacteriological Grade) 1.5% agar after incubation at 35-37°C for 18-24 hours.

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









PACKAGING

Standard packing is 500gm in plastic bottle and 25 kg in bag. After packing tightly closed in a dry and well- ventilated place.

STORAGE

Store at room temperature in cool place, Keep container tightly closed in a dry and well-ventilated place and away from bright light. 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

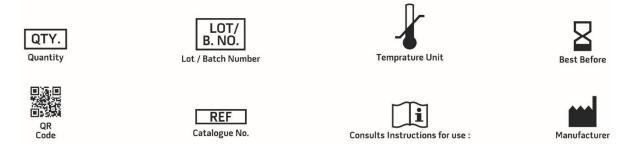
Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

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

REFERENCES

- Prokofeva, Miroshnichenko, Kostrikina, Chernyh, Kuznetsov, Tourova and Bonch-Osmolovskaya. 2000
 Int. J. Syst. Evol. Microbiol. 50: Pt 6:2001.
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- 4. U.S. Food and Drug Administration. 1995. Bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, Md.
- 5. Downes and Ito (ed.). 2001. Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.
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NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

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





