Proteose Peptone RDM-P-15

Principle: Proteose peptone is extracted from animal origin. It is the soluble product of the enzymic digestion of animal tissue. It is a rich source of proteoses, peptones and free amino acids. It provides, nitrogen, free amino acids, and proteoses and contain adequate amount of vitamins and minerals to stimulate the growth of microorganisms. It is a highly nutritious ingredient used in media used for bulk production of antibiotics, enzymes, commercially important products etc.

Use: Recommended to use as culture media ingredient in variety of media and in fermentation.

Quality Control
Physical parameters

Appearance	Light beige colored homogeneous free flowing, hydroscopic powder
Solubility (2%)	Soluble in distilled water
Clarity	Pale yellow color clear solution without haziness at 2 % concentration
pH	5.50 – 7.50
Loss on drying	NMT 7.0%

Chemical analysis

Total Nitrogen	NLT 12.00 %
Total peptone	NLT 80.00%
Amino Nitrogen	NLT 2.00 %
Residue on ignition	NMT 15.00 %

Bacteriological testing Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using Pancreatic digest of casein under test.

Test for pathogens:

Total Plate Count	NMT 10000 CFU per gram.
Yeast & Molds	Absent per 10 grams
Escherichia coli	Absent per 10 grams
Salmonella	Absent per 10 grams
Staphylococcus aureus	Absent per 10 grams

Culture response: Cultural response observed after incubation at 35-37°C for 24 hours by using 2.0% proteose peptone, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4.

Escherichia coli (ATCC 8739)	Luxuriant growth
Salmonella typhimurium (ATCC 14028)	Luxuriant growth
Pseudomonas aeruginosa (ATCC 27853)	Luxuriant growth

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.
Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes used, unusable or modified preparation of this product must be disposed after autoclaving or incineration after completion of task.

Disclaimer

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