



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, hygroscopic 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 11.00 %
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
<i>Escherichia coli</i>	Absent per 10 grams
<i>Salmonella</i>	Absent per 10 grams
<i>Staphylococcus aureus</i>	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.

<i>Escherichia coli</i> (ATCC 8739)	Luxurious growth
<i>Saccharomyces cerevaceae</i> (ATCC 10231)	Luxurious growth
<i>Aspergillus brasiliansis</i> (ATCC 16404)	Luxurious growth

Storage and Shelf Life

Store below 30°C in tightly sealed jar or container. Use before expiry date on the label.

Expected performance when stored at optimum conditions and within expiry date.

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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