



Technical Data Sheet

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Peptone Type III

RDM-P-28

Principle

Peptone Type III are proteins from plant source protein that have been hydrolyzed by enzymatic process. Extraction of protein from the plant source using enzymes to produce biopeptides. It is a highly nutritious protein is used as an ingredient in culture media. It can be incorporated into a variety of liquid and solid culture media formulations for the cultivation of fastidious and non-fastidious microorganisms.

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	Light amber color clear solution without haziness at 2 % concentration
pH	5.00 – 7.00
Loss on drying	NMT 6.00%

Chemical analysis

Total Nitrogen	NLT 12.00 %
Amino Nitrogen	NLT 3.00%
Residue on ignition	NMT 12.00%

Bacteriological testing: Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using peptone under test.

Test for pathogens:

Total Plate Count	NMT 10000 cfu per grams
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% Peptone type III, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4.

<i>Escherichia coli</i> (ATCC 8739)	Luxurious growth
<i>Salmonella typhimurium</i> (ATCC 14028)	Luxurious growth
<i>Pseudomonas aeruginosa</i> (ATCC 10145)	Luxurious 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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