



Technical Data Sheet

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Yeast Peptone

RDM-P-20

Principle: Yeast peptone is obtained by enzymatic hydrolysis of yeast protein from a selected strain of *Saccharomyces cerevisiae*. For production only microbial origin enzymes are used. The protease enzymes lyse the cell wall of yeast and the entire cell content oozes out of the cell and solubilize in surrounding medium. The yeast peptone is rich in small peptides, balanced proteins, amino acids, vitamins, trace elements etc. The extraction and purification process is controlled to give light color and clear aqueous solution.

Use: Recommended to use as culture media ingredient in variety of media preparations used for production of enzymes, steroids, vaccines and other pharmaceutical, agricultural economical products.

Quality Control

Appearance	A fine, free flowing, hygroscopic powder.
Color	Light yellow colored powder.
Solubility (2%)	Clearly Soluble in Distilled / de-ionized water.
Color (2%)	Pale yellow colored solution.
pH (2%)	5.00 -7.00 @ 25°C.
Loss on Drying	NMT 7.0 % at 25°C as estimated by AOAC method.

Chemical analysis

Total Nitrogen	NLT 10.0% by KJEDAHN'S Method.	
Amino Nitrogen	NLT 4.00%	
Ash content	NMT 12.0% as estimated by AOAC method.	

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

Microbial count As per method specified in USP 32, NF26 <=Total of 50 microorganisms or clumps in 10 consecutive fields.

Culture response: Cultural response observed after incubation at 35-37°C for 18-24 hours by preparing Plate Count Agar using Yeast extract powder as an ingredient.

<i>Escherichia coli</i> (ATCC 8739)	Luxurious growth
<i>Saccharomyces cerevaceae</i> (ATCC 9736)	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.

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