



Technical Data Sheet

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Yeast Extract

RDM-YE-02

Principle: Yeast hydrolysates are hydrolyzed products of yeast cells, made by special enzymatic hydrolysis and wall breaking process. Only specially cultivated yeast are used, which is cultivated under controlled conditions to enrich with nutrient. The protease enzymes lyse the cell wall of yeast and the entire cell content oozes out of the cell and solubilize in surrounding medium. Further the cell wall debris is removed by separation technique and extract is dried. Since the yeast extract consists of proteins, amino acids, carbohydrates, vitamins and minerals from the yeast cell without the surrounding cell wall. It is a rich source of vitamin B complex.

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

Quality Control

Appearance	A fine, free flowing, hygroscopic powder.
Color	Pale yellow colored powder.
Solubility (2%)	Clearly Soluble in Distilled / de-ionized water.
Color (2%)	Pale yellow colored liquid.
pH (2%)	5.0 -7.00 at 25°C.
Loss on Drying	NMT 7.0 % as estimated by AOAC method.

Chemical analysis

Total Nitrogen (N)	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.

Microbial Parameters

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.

Microbial 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>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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