

Technical Data Sheet

Yeast Extract

(MML-YE-01)

Principle: Yeast extracts consist of the cell contents of yeast without the cell walls. Yeast extract powder, is prepared by drying the extract from autolysin yeast cells (*Saccharomyces*) specially cultivated under controlled conditions to maintain its nutrient value. 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

Physical properties	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 at 25°C.
Chemical analysis	Loss on Drying	NMT 7.0 % at 25°C as estimated by AOAC method.
	Total Nitrogen	NLT 10.0% by KJEDAHN'S Method.
	Amino Nitrogen	NLT 4.50%
	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.	400
Yeast & Molds	Absent per 10 grams.	Absent
<i>Escherichia coli</i>	Absent per 10 grams.	Absent
<i>Salmonella</i>	Absent per 10 grams.	Absent
<i>Staphylococcus aureus</i>	Absent per 10 grams.	Absent

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

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.

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