



Yeast Extract 500 g

Used as a growth supplement in bacteriological media it provides nitrogenous compounds, carbon, sulfur, trace nutrients, B-complex vitamins and other growth factors for microorganisms.

Product Presentation:

Cat No.	Product description	Pack Size
12250010500	Yeast Extract	500 Gram

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.

Directions

- ✓ Refer to the final concentration in the formula of the medium being prepared.

Storage and Stability

- ✓ Store dehydrated medium below 30°C in tightly closed container. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Quality Control

Test	Specifications
Appearance	Light yellow colored homogeneous free flowing powder
Solubility	Soluble in distilled water.
Colour and Clarity of the medium	Pale yellow colour clear solution
pH at 25 ± 2°C	5.00 - 7.00
Loss on Drying	Not More Than 7%
Total Nitrogen	Not Less Than 10%
Amino Nitrogen	Not Less Than 4.5%
Residue on ignition	Not More Than 12%

Bacteriological testing

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

FACTORY & OFFICE

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Test for pathogens

Test	Specifications
Total Plate Count	Not More Than 10000 CFU per gram.
Yeast and Molds	Absent
E. coli	Absent
Salmonella	Absent
Staphylococcus aureus	Absent

Culture response

Cultural response observed after incubation at 35-37°C for 24 hours by using 2% peptone, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4. Inoculate (Inoculum 50-100 CFU) and incubate at 35 ± 2°C for 18-24 hours.

Organism	Type Culture	Growth
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Luxurious growth
<i>Salmonella typhi</i>	ATCC 6539	Luxurious growth
<i>Escherichia coli</i>	ATCC 8739	Luxurious growth
<i>Saccharomyces cerevaceae</i>	ATCC 9736	Luxurious growth

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures. User must be ensure safe disposal of used or unusable preparation of the products.

Reference

- ✓ United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.

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