

## 1531-YEAST EXTRACT PASTE (For Bacteriological)

### INTENDED USE

Used as biological culture medium. Reckoned highly for improving quality and yield rate, we are Liver Extract Paste Manufacturer providing yeast extract powder which is rich in protein, balanced essential amino acids, B complex vitamin and microelements.

### PRODUCT SUMMARY AND EXPLANATION

Yeast Extract Paste is derived from an aqueous extract of yeast cell. It is Brownish thick viscous paste having characteristic yeast odour but not pungent smell. It is a rich source of vitamins, amino acid. Yeast Extract is the water soluble portion of autolyzed yeast containing vitamin B complex. Yeast Extract is an excellent stimulator of bacterial growth and used in culture media. The autolysis is carefully controlled to preserve the naturally occurring B-complex vitamins. Yeast Extract also provides vitamins, nitrogen, amino acids, and carbon in microbiological culture media.

### PRINCIPLE

Yeast Extract Paste is manufactured under controlled condition by concentrating autolysed solution of yeast cells (*Saccharomyces*) to achieve minimum 55% solid content, by retaining all the nutritive values. It is suitable for cultivation of various microorganisms, fermentation and other biological products

### INSTRUCTION FOR USE

Use in culture media for cultivation of various microorganisms, fermentation and other biological products.

### QUALITY CONTROL SPECIFICATIONS

<b>Appearance</b>	:	Brownish thick viscous paste having characteristic yeast odour but not pungent smell.
<b>Solubility (2% soln. at 25°C)</b>	:	Soluble in distilled water, clear. Insoluble in alcohol
<b>Clarity (2% Soln. at 121°C)</b>	:	Clear solution. No ppt.
<b>pH (2% Soln. at 25 °C)</b>	:	5.5 – 6.5
<b>Total Solids</b>	:	NLT – 65.0%
<b>Total Nitrogen ( DWB)</b>	:	NLT – 6.8%
<b>α-Amino Nitrogen</b>	:	NLT – 2.0%
<b>Total Ash</b>	:	NMT – 10.0%
<b>Chloride (as NaCl)</b>	:	NMT – 5.0%
<b>Indole Test</b>	:	Positive
<b>Microbial Test</b>	:	Passes test
<b>Growth Promotion Test</b>	:	Passes test

### INTERPRETATION

Cultural Characteristic observed in 2% Yeast Extract Paste and 1.5% agar after incubation at 35-37°C for 18-24 hours

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
<i>Staphylococcus aureus</i>	25923	50-100	Good-Luxuriant
<i>Escherichia coli</i>	25922	50-100	Good-Luxuriant
<i>Pseudomonas aeruginosa</i>	27853	50-100	Good-Luxuriant
<i>Bacillus subtilis</i>	6633	50-100	Good-Luxuriant
<i>Enterococcus faecalis</i>	29212	50-100	Good-Luxuriant



<i>Streptococcus pyogenes</i>	19615	50-100	Good-Luxuriant
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**PACKAGING:**

Standard packing is 500gm, 5kg in plastic bottle. After packing tightly closed in a dry and well- ventilated place.

**STORAGE**

Store at room temperature in cool place, Keep plastic bottle tightly closed in a dry and well-ventilated place. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

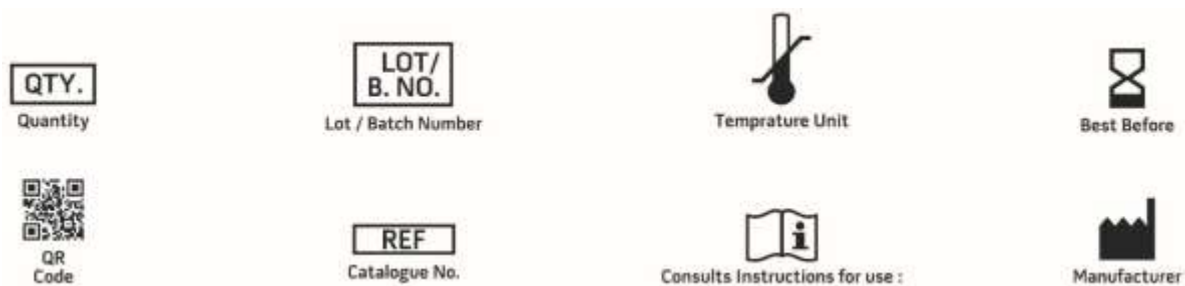
**Product Deterioration:** Do not use product if any contamination, discoloration or other sign of deterioration is found.

**DISPOSAL**

After use, contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

**REFERENCES**

1. Collinge. 2001. Prion diseases of humans and animals: their causes and molecular basis. Annu. Rev. Neurosci. 24:519-50.
2. Kunitz. 1945. Crystallization of a trypsin inhibitor from soybeans. Science. 101:668-9.
3. United States Pharmacopeial Convention, Inc. 2004. The United States pharmacopeia 27/The national formulary 22–2004. United
4. Reed and Nagodawithana. 1991. Yeast technology, 2nd ed. Van Nostrand Reinhold, New York.



**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
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