

## 1532-YEAST EXTRACT POWDER-R (For Bacteriological)

### INTENDED USE

For used as a bacteriological media component for a variety of microorganisms and molecular genetics applications. Also suitable for alternative to meat extract.

### PRODUCT SUMMARY AND EXPLANATION

Yeast Extract Powder-R is derived from an aqueous extract of yeast cell. It is Yellow to light brownish free flowing powder 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 Powder-R is prepared by drying yeast cells (*Saccharomyces*) extract specially grown for this purpose. It is a rich source of amino nitrogen. It provides vitamins, nitrogen, amino acids and carbon required for bacterial growth. It is used extensively for many non-animal formulations of bacterial, fungal, mammalian and insect cell culture.

### INSTRUCTION FOR USE

It is used as an additive for culture media.

### QUALITY CONTROL SPECIFICATIONS

<b>Appearance</b>	:	Yellow to light brownish free flowing powder 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>Loss on drying (at 105°C)</b>	:	NMT – 6.0%
<b>Total Nitrogen (DWB)</b>	:	NLT – 10.0%
<b>α-Amino Nitrogen</b>	:	NLT – 3.0%
<b>Total Ash</b>	:	NMT – 15.0%
<b>Chloride (as NaCl)</b>	:	NMT – 5.0%
<b>Microbial Test</b>	:	Passes test
<b>Growth Promotion Test</b>	:	Passes test

### INTERPRETATION

Cultural Characteristic observed in 2% Yeast Extract Powder-R 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
<i>Lactobacillus casei</i>	9595	50-100	Good-Luxuriant

**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.



Quantity



Lot / Batch Number



Temperature Unit



Best Before



QR Code



Catalogue No.



Consults Instructions for use :



Manufacturer

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

**\*For Lab Use Only**  
Revision: 05<sup>th</sup> Oct. 2019