

1264 -YEAST EXTRACT (STD) TBL POWDER (Culture Media Ingredient)

INTENDED USE

Yeast Extract (STD) TBL Powder is used in the preparation of culture media for the cultivation of a wide variety of microorganisms.

PRODUCT SUMMARY AND EXPLANATION

Yeast Extract (STD) TBL Powder are concentrates of the water-soluble portion of *Saccharomyces cerevisiae* cells that have been autolyzed. These products provide essential water-soluble vitamins, amino acids, peptides and carbohydrates in microbiological culture media. Yeast Extract (STD) TBL Powder is considered a non-animal product and is used extensively for many nonanimal formulations of bacterial, fungal, mammalian and insect cell culture. It has been considered one of the most complete and versatile of the fermentation bionutrients available. It has been a valuable ingredient for the microbiological assay of vitamins

PRINCIPLE

Yeast Extract Powder 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 and the microbiological assay of vitamins.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light yellowish free flowing powder having characteristic yeast odor but not pungent smell.
Solubility (2% soln. at 25°C)	:	Completely soluble in distilled water, clear. Insoluble in alcohol
Clarity (2% Soln. at 121°C)	:	Absolute clear solution. No ppt.
pH (2% Soln. at 25°C)	:	6.5 – 7.5
Loss on drying (at 105°C)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 10.5%
α-Amino Nitrogen	:	NLT – 4.5%
Total Ash	:	NMT – 15.0%
Chloride (as NaCl)	:	NMT – 1.0%
Microbial Test	:	Passes test
Growth Promotion Test	:	Passes test
Indole Test	:	Positive

TEST	SOLUTION	ORGANISM	ATCC	RESULT
Hydrogen Sulfide Production	1%	Salmonella Typhimurium	14028	Positive
Indole Production	1%	Escherichia coli	29552	Positive

INTERPRETATION

Cultural Characteristic observed in 2% Yeast Extract (STD) TBL 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, 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

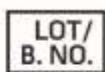
After use, contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

REFERENCES

1. U.S. Food and Drug Administration. 2001. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md.
2. Downes and Ito (ed.). 2001. Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.
3. Wehr and Frank (ed.). 2004. Standard methods for the examination of dairy products, 17th ed. American Public Health Association, Washington, D.C.



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: 05th Oct. 2019

