

TM 1121 - YPD BROTH (YEPD BROTH)

INTENDED USE

For growth of *Saccharomyces cerevisiae* in molecular biology.

PRODUCT SUMMARY AND EXPLANATION

YPD Broth (YEPD Broth) is recommended by Sherman for the growth of *Saccharomyces cerevisiae* for molecular biology purposes. This medium supports the growth of most heterotrophic microorganisms but due to their simple composition, they have been adopted as the basal media for the routine cultivation of yeasts. General methods in yeast genetics specify using Yeast Extract Peptone- Dextrose (YPD) medium for cultivating *S. cerevisiae* and other yeasts. Yeasts grow well on a minimal medium containing only dextrose and salts. The addition of protein and yeast cell extract hydrolysates allows faster growth so that during exponential or log-phase growth, the cells divide every 90 minutes.

COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	20.000
Yeast extract	10.000
Dextrose	20.000

PRINCIPLE

The medium composition aids in growth of *Saccharomyces*. Peptic digest of animal tissue provides nitrogenous nutrients. Yeast extract provides nitrogenous nutrients as well as Vitamin B Complex. Dextrose provides the carbohydrate and energy source to support growth of *S. cerevisiae*.

INSTRUCTION FOR USE

- Dissolve 50.0 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Light amber coloured clear solution in tubes.
pH (at 25°C) : 6.5±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Aspergillus brasiliensis</i>	16404	10-100	Good-luxuriant	25-30°C	48-72 Hours



<i>Candida albicans</i>	10231	10-100	Good-luxuriant	35-37°C	18- 24 Hours
<i>Saccharomyces cerevisiae</i>	9763	10-100	good-luxuriant	35-37°C	18- 24 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.







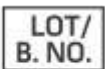


Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

- Sherman F., Meths. Enzymol. 194, 3 (1991).
- Ausubel F. M., Brent R., Kingston R. E., Moore D. D., Seidman J. G., Smith J. A. and Struhl K., 1994, Current protocols in molecular biology, Current Protocols, Brooklyn, N.Y.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

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

*For Lab Use Only
Revision: 08 Nov., 2019