YPD Broth (YEPD Broth)

Intended Use
YPD Broth (YEPD Broth) is recommended for the growth of *Saccharomyces cerevisiae* for molecular biology purposes.

Summary
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 (YEPD) 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.

Principle
The medium composition aids in growth of *Saccharomyces*. Peptone 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.*

Formula*
Ingredients	**g/L**
Peptone	20.0
Yeast Extract	10.0
Dextrose	20.0
Final pH (at 25°C)	6.5 ± 0.2

*Adjusted to suit performance parameters.

Storage and Stability
Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Specimen Collection and Handling
Ensure that all samples are properly labelled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions
1. Suspend 50.00 g of the powder in 1000 mL purified / distilled water.
2. Heat if necessary, to dissolve the powder completely.
3. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.

Quality Control
Dehydrated Appearance: Cream to yellow coloured, homogenous, free flowing powder.
Prepared Appearance: Light amber to dark amber coloured, clear solution in tubes.
Cultural Response: Cultural characteristics observed after an incubation at 25°C-30°C for 48-72 hours.

Organism (ATCC)	**Growth**	**Incubation Period**
Candida albicans 3147 (10231)	Good	48 Hours
Saccharomyces cerevisiae NRRL Y-567 (9763)	Good	48 Hours
Aspergillus brasiliensis WLRI 034(120) (16404)	Good	72 Hours

Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

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.

Reference

1. Sherman F., Meths. Enzymol. 194, 3 (1991).
2. 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.
3. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat. No.	Product Description	Pack Size
201250060500	Dehydrated Culture Media	500 g