MOLECULAR BIOLOGY

Molecular Biology Growth Media

Technical Information

YPD (YEPD) Growth Medium

Product Code: G1037

YPD (YEPD) Growth Medium is used for the growth of *Saccharomyces cerevisiae*.

Composition** :

Ingredients	Grams/Litre
Peptone	20.00
Yeast extract	10.00
Dextrose	20.00
Final pH (at 25°C)	6.5 ± 0.2

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 50 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely . Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation

YPD (YEPD) Growth Medium is used for the growth of *Saccharomyces cerevisiae*. Yeasts are unicellular eukaryotes and extensively studied model organism in molecular genetics. They are chemoorganotrophs as they utilize organic compounds as a source of energy. YPD (YEPD) Growth Medium is used for the maintenance and propagation of yeasts including *S. cerevisiae* in various molecular microbiology procedures (1, 2). YPD functions as a complete medium for yeast growth and it contains yeast extract, peptone and glucose or dextrose. Yeast extract supplies B-complex vitamins and it contains all the amino acids necessary for growth. Peptone acts as the source of nitrogen, vitamins and minerals. Dextrose serves as the carbon source. This medium supports the vigorous growth of wild type as well as mutant strains of all kinds of budding yeast.

Quality Control

Appearance of Powder :
Cream to yellow coloured, homogeneous, free flowing powder.
Colour and Clarity of prepared medium:
Light yellow coloured, clear solution without any precipitate.
Reaction :
Reaction of 5.0% w/v aqueous solution is pH 6.5 ± 0.2 at 25°C.
Cultural Response :
Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

Organisms (ATCC)	Growth
Saccharomyces cerevisiae ATCC 9763	good-luxuriant

Storage and Shelf Life

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.

References

1. Adams, A., D. E. Gottschling, C. A. Kaiser, and T. Stearns. 1997. Methods in yeast genetics: A Cold Spring Harbor Laboratory Course Manual. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.
2. Burke, D., Dawson, D., and T. Stearns. 2000. Method in yeast genetics. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.