MOLECULAR BIOLOGY
Molecular Biology Growth Media

Technical Information

YPD (YEPD) Growth Agar

Product Code: G1038

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

Composition** :

Ingredients	Grams/Litre
Peptone	20.00
Yeast extract	10.00
Dextrose	20.00
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 65 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle and Interpretation

YPD (YEPD) Growth Agar 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 Agar 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 :
Light yellow coloured, homogeneous, free flowing powder.
Gelling :
Firm, comparable with 1.5% Agar gel
Colour and Clarity :
Light yellow coloured, clear to slightly opalescent gel forms in Petri plates.
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.
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