

# YPD Agar

Cat. 1546

For maintaining and developing yeast in molecular biology procedures

## Practical information

Applications	Categories
Enrichment	Yeasts

Industry: Molecular biology / Microbiological Culture Media



## Principles and uses

YPD Agar is used for maintaining and developing yeast in molecular microbiology procedures. The formula is the same as in YP Agar Base Medium (Cat. 1513) but with the dextrose added.

YPD Agar is also used to cultivate *Saccharomyces cerevisiae* and other yeasts. Yeasts grow well on a medium containing only a minimal amount of glucose and salts. This medium contains dextrose (with the addition of dextrose after autoclaving), salts and proteins, which favors the growth of *Saccharomyces cerevisiae* and reduces growing times. Yeast extract is the source of vitamins, particularly the B-group. Peptone provides nitrogen, vitamins, minerals and amino acids. Bacteriological agar is the solidifying agent.

*Saccharomyces cerevisiae* has a genome of 14 Mb containing 6000 genes arranged in 16 chromosomes, which have been completely sequenced, and thus, is a species type in microbiology and genetics studies.

## Formula in g/L

Bacteriological agar	15	Dextrose	20
Peptone	20	Yeast extract	10

## Preparation

Suspend 65 grams of medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Sterilize in autoclave at 121°C for 15 minutes. Cool to 45-50°C, mix well and dispense into plates.

## Instructions for use

- This medium can be inoculated directly or after enrichment broth YPD Broth (Cat. 1547).
- Spread the plates of YPD Agar and incubate at 25±2°C for 42-48 hours.

## Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Amber, slightly opalescent	6,5 ± 0,2

## Microbiological test

Incubation conditions: (25±2 °C / 42-48 h)

Microorganisms

Candida albicans ATCC 10231

Sacharomyces cerevisiae ATCC 9080

Specification

Good growth

Good growth

## Storage

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Temp. Min.:2 °C

Temp. Max.:25 °C

## Bibliography

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Guide to yeast genetics and molecular biology. (1991) Ed. Christine Guthrie & Gerald Fink. Methods in Enzymology vol. 194.

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