

## YPD Broth

Cat. 1547

For maintaining and developing yeasts in molecular biology procedures.

### Practical information

Applications	Categories
Enrichment	Yeasts
Protein expression	Yeasts

Industry: Culture media for Molecular biology



### Principles and uses

YPD Broth is used for the maintenance and the development of yeast in molecular biology procedures. The formula is the same as in YP Base Medium (Cat. 1511) but with the dextrose added.

YPD Broth 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, 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 essential for bacterial growth. Peptone provides nitrogen, vitamins, minerals and amino acids.

*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

Dextrose	20	Peptone	20
Yeast extract	10		

### Preparation

Suspend 50 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 118°C for 15 minutes. Avoid overheating.

### Instructions for use

- Carry out the experimental procedure according to appropriate use or purpose.
- Inoculate and incubate at a temperature of 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)

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Microorganisms

Specification

*Candida albicans* ATCC 10231

Good growth

*Sacharomyces cerevisiae* ATCC 9080

Good growth

*Saccharomyces cerevisiae* ATCC 9763

Good growth

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## Storage

Temp. Min.:2 °C

Temp. Max.:25 °C

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## Bibliography

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

Current protocols in Molecular Biology. Eds. Ausubel, F. M. Brent, R., Kingston, R, E., Moore, D. D., Seidman, J. G., Smith J. A., and Struhl, K.13,01.-13.2.10. The Yeast Genome Directory (1997, May 29) Nature Supp. to volume 387.

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