

Technical Information

YEP Growth Agar

Product Code: G1040

YEP Growth Agar is used as a base for making variation with an alternate carbon sources, for the growth of *Saccharomyces cerevisiae*.

Composition** :

Ingredients	Grams/Litre
Peptone	20.00
Yeast extract	10.00
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 45 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

YEP Growth Agar is used as a base for making variation with an alternate carbon sources, 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.

YEP Growth Agar is used for the maintenance and propagation of yeasts including *S. cerevisiae* in various molecular microbiology procedures (1, 2).

This media functions as a complete medium for yeast growth and it contains yeast extract, peptone and agar. 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. 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.

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 25-30°C for 18 - 48 hours.

Organisms (ATCC)

Saccharomyces cerevisiae ATCC 9763

Growth

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 :

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