

Technical Information

YEP Growth Medium

Product Code: G1039

YEP Growth Medium 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

Final pH (at 25°C) 6.5 ± 0.2

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 30 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation

YEP Growth Medium 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 Medium is used for the maintenance and propagation of yeasts including *S. cerevisiae* in various molecular microbiology procedures (1, 2). YEP functions as a complete medium for yeast growth and it contains yeast extract and peptone. 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 light yellow coloured, homogeneous, free flowing powder

Colour and Clarity :

Light amber coloured, clear solution without any precipitate.

Reaction :

Reaction of 3.0% w/v aqueous solution is pH 6.5 ± 0.2 at 25°C.

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 :

- User must ensure suitability of the product(s) in their application prior to use.
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