

Technical Information

YE Growth Agar

Product Code: G1046

YE Growth Agar is used for the growth of *Schizosaccharomyces pombe*.

Composition** :

Ingredients	Grams/Litre
Yeast extract	5.00
Dextrose	30.00
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 50 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

YE Growth Agar is used for the growth of *Schizosaccharomyces pombe*. *Schizosaccharomyces pombe*, also called "fission yeast", is a species of yeast. It is used as a model organism in molecular and cell biology. It is possibly the eukaryote with the shortest genome. These cells maintain their shape by growing through the cell tips and divide by medial fission to produce two daughter cells of equal sizes that makes them a powerful tool in cell cycle research. It was first developed as an experimental model in the 1950's for studying genetics (1, 2) and for studying the cell cycle (3, 4).

Quality Control

Appearance of Powder :

Cream to 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)

Schizosaccharomyces pombe

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. Leupold U. (1950) CR Trav Lab Carlsberg Ser Physiol 24:381-480.
2. Leupold U. (1993) The origins of *Schizosaccharomyces pombe* genetics. In: Hall MN, Linder P. eds. The early Days of Yeast Genetics. New York. Cold Spring Harbor Laboratory Press. 125-128.
3. Mitchinson JM. (1975) Exp Cell Res 13:244-262.
4. Mitchinson JM. (1990) Bioessays 4:189-191.

Disclaimer :

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