

YES Growth Agar

G048

YES Growth Medium is used for the vegetative growth of *Schizosaccharomyces pombe*.

Composition** :

Ingredients	Grams/Litre
Yeast extract	5.00
Dextrose	30.00
Adenine	0.05
Histidine	0.05
Leucine	0.05
Lysine	0.05
Uracil	0.05
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Directions :

Suspend 50.25 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 pour into sterile Petri plates.

Principle and Interpretation :

YES Growth Agar is used for the vegetative 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).

YES functions as a complete medium for fission yeast growth and it contains yeast extract, glucose and other supplements which include adenine, histidine, leucine, uracil and lysine hydrochloride. Dextrose serves as the carbon source. The generation time of a wild-type strain of fission yeast is about 2 hours in YES (5). Since the medium contains 30 grams per litre dextrose, the medium should be properly dissolved in water before autoclaving to avoid caramelization of the sugar.

Please refer disclaimer Overleaf

Registered Office

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Quality Control :**Appearance of Powder :**

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

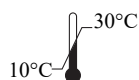
good-luxuriant

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.
5. Forsburg SL, Rhind N. 2006. Basic methods for fission yeast. Yeast 23: 173-183



Storage temperature



Do not use if package is damaged



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