

## Technical Information

### YE Growth Medium

#### Product Code: G1045

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

#### Composition\*\* :

Ingredients	Grams/Litre
Yeast extract	2.50
Dextrose	30.00

\*\* Formula adjusted, standardized to suit performance parameters

#### Methodology

Suspend 35 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

YE Growth Medium 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 :

Light yellow coloured, homogeneous, free flowing powder.

##### Colour and Clarity :

Light yellow coloured, clear solution without any precipitate.

##### Cultural Response :

Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

##### Organisms (ATCC)

*Saccharomyces 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.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.