

## Technical Information

### Minimal Sporulation Growth Agar

#### Product Code: G1043

Minimal Sporulation Growth Agar is used for the growth and sporulation of *Saccharomyces cerevisiae*.

#### Composition\*\* :

Ingredients	Grams/Litre
Potassium acetate	10.00
Agar	15.00

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

#### Methodology

Suspend 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 dispense as desired.

#### Principle and Interpretation

Minimal Sporulation Growth Agar is used for the growth and sporulation of *Saccharomyces cerevisiae*. *Saccharomyces cerevisiae* is a unicellular eukaryote that has become an important tool in microbial genetic techniques. It undergoes meiosis and sporulation which takes place in a single cell. This medium stimulates the sporulation of diploid yeast cells which occurs only when cells are deprived of any carbon source. Potassium acetate enhances the sporulation of diploid strains.

#### 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)

*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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