

Technical Information

Sporulation Growth Agar

Product Code: G1042

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

Composition** :

| Ingredients | Grams/Litre |
|-------------------|-------------|
| Yeast extract | 1.00 |
| Potassium acetate | 20.00 |
| Agar | 15.00 |

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 36 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

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. This medium contains agar as the solidifying agent.

Quality Control

Appearance of Powder :

Cream to 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.

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