

**Synthetic Complete Supplement Mixture (SC)**

**G102**

Synthetic Complete Supplement Mixture (SC) is used as an amino acid supplement for all strains of *Saccharomyces cerevisiae*.

**Composition\*\* :**

<b>Ingredients</b>	<b>Milligrams/Litre</b>
Adenine	21.00
L-Alanine	85.60
L-Arginine HCl	85.60
L-Asparagine	85.60
L-Aspartic acid	85.60
L-Cysteine HCl	85.60
Glutamine	85.60
L-Glutamic acid	85.60
Glycine	85.60
L-Histidine HCl	85.60
Myo-Inositol	85.60
L-Isoleucine	85.60
L-Leucine	173.40
L-Lysine HCl	85.60
L-Methionine	85.60
L-Phenylalanine	85.60
L-Proline	85.60
L-Serine	85.60
L-Threonine	85.60
L-Tryptophan	85.60
L-Tyrosine	85.60
Uracil	85.60
L-Valine	85.60

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

**Directions :**

Suspend 2.0 grams in 1000 ml distilled water. Sterilize by autoclaving at 10 lbs pressure (115°C) for 20 minutes. Mix well and dispense as desired.

**Principle and Interpretation :**

Synthetic Complete Supplement Mixture (SC) is used as an amino acid supplement for all strains of *Saccharomyces cerevisiae*. This yeast strain is called budding yeast and is extensively studied microorganism in molecular and cell biology.

Synthetic Complete Supplement Mixture (SC) is developed according to the formulae of Wickerham (1, 2) which supplies the essential nutritional elements for budding yeast cells. It is composed of all the amino acids required for the vigorous growth of *Saccharomyces cerevisiae*. It can be mixed with yeast nitrogen base (YNB), ammonium sulphate and an appropriate carbon source (glucose/galactose/raffinose) to produce a media suitable for the growth of budding yeast. It is also the basis for many “Drop-Out” formulations for the selections of auxotrophic requirements and transformants.

**Quality Control :****Appearance of Powder :**

White to cream coloured, homogeneous, free flowing powder.

**Colour and Clarity :**

Colourless, clear solution without any precipitate.

**Cultural Response :**

Cultural characteristics observed after an incubation at 25-30°C for 18 - 48 hours.

## Organisms (ATCC)

*Saccharomyces cerevisiae* ATCC9763

## Growth

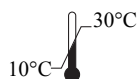
good-luxuriant

## References :

1. Wickerham. 1939. J. Tropical Med. Hyg. 42:176.
2. Wickerham. 1946. J. Bacteriol. 52:293.

## Storage and Shelf-life :

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.



Storage temperature



Do not use if package is damaged



HiMedia Laboratories Private Limited,  
Reg. Off: Plot No. C-40, Road No. 21Y,  
MIDC, Wagle Industrial Area, Thane,  
(West) 400604, Maharashtra, INDIA.  
Web: [www.himedialabs.com](http://www.himedialabs.com)



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HiMedia Laboratories Pvt. Ltd. Reg.office : Plot No. C-40, Road No. 21Y, MIDC, Wagle Industrial Area, Thane, (West) 400604, Maharashtra, INDIA.  
Customer Care No.: 00-91-22-6116 9797 Tel: 00-91-22-6147 1919, 6903 4800 Email: [techhelp@himedialabs.com](mailto:techhelp@himedialabs.com) Website: [www.himedialabs.com](http://www.himedialabs.com)