

Technical Information

Synthetic Complete Supplement Mixture (SC)

Product Code : G1102

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

Composition**

Ingredients	Grams/Litre
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

Methodology

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 ATCC 9763

Growth

good-luxuriant

Storage and Shelf Life

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

References

1. Wickerham. 1939. J. Tropical Med. Hyg. 42:176.

2. Wickerham. 1946. J. Bacteriol. 52:293.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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