

Technical Information

Synthetic Complete Supplement Mixture (SC) w/o HIS

Product Code : G1152

Synthetic Complete Supplement Mixture (SC) w/o HIS is used as a dropout 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
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 1.91 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) w/o HIS is used as a dropout 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) w/o HIS 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* except histidine. This makes it a dropout growth medium for yeast cells. 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 histidine prototrophs and wild type strains of *S. cerevisiae* but histidine auxotroph cannot grow in this media.

Therefore, SC w/o HIS can be used as drop-out formulation for the selection of auxotrophic requirements and transformants.

Quality control

Appearance of Powder :

White to light yellow coloured, homogeneous, free flowing powder.

Colour and Clarity :

Colourless to pale yellow coloured, 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

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.

Disclaimer :

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