Complete Supplement Mixture w/o HIS **G105**

Complete Supplement Mixture w/o HIS is used as a dropout supplement for all strains of *Saccharomyces cerevisiae.*

Composition :**

Ingredients	Milligrams/Litre
Adenine	10.00
L-Arginine HCl	50.00
L-Aspartic acid	80.00
L-Isoleucine	50.00
L-Leucine	100.00
L-Lysine HCl	50.00
L-Methionine	20.00
L-Phenylalanine	50.00
L-Threonine	100.00
L-Tryptophan	50.00
L-Tyrosine	50.00
Uracil	20.00
L-Valine	140.00

** Formula adjusted, standardized to suit performance parameters

Directions :

Suspend 770 mg in 1000 ml distilled water. Sterilize by autoclaving at 115°C for 20 minutes. Mix well and dispense as desired.

Principle and Interpretation :

Complete Supplement Mixture w/o HIS is used as a dropout supplement for all strains of *Saccharomyces cerevisiae.* Complete Supplement Mixture (CSM) is composed of all the amino acids required for the vigorous growth of *Saccharomyces cerevisiae.* It also contains uracil. CSM w/o HIS does not contain 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, CSM w/o HIS can be used as drop-out formulation for the selection of auxotrophic requirements and transformants.

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Quality Control :

Appearance of Powder :
White to off-white coloured, homogeneous, free flowing powder.

Colour and Clarity of prepared medium :
Colourless, clear solution without any precipitate.

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

Organisms (ATCC)	**Growth**
Saccharomyces cerevisiae ATCC 9763	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.

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