

Synthetic Complete Supplement Mixture (SC) w/o TRP

G154

Synthetic Complete Supplement Mixture (SC) w/o TRP is used as a dropout supplement for all strains of *Saccharomyces cerevisiae*.

Composition** :

Ingredients	Milligrams/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-Tyrosine	85.60
Uracil	85.60
L-Valine	85.60

** Formula adjusted, standardized to suit performance parameters

Directions :

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.

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Principle and Interpretation :

Synthetic Complete Supplement Mixture (SC) w/o TRP 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 TRP 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 typtophan. 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 tryptophan prototrophs and wild type strains of *S. cerevisiae* but tryptophan auxotroph cannot grow in this media. Therefore, SC w/o TRP 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)

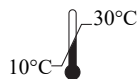
Saccharomyces cerevisiae ATCC 9763

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.



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



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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 Website: www.himedialabs.com