

Technical Information

Complete Supplement Mixture w/o LEU, w/ 40mg/l ADE

Product Code : G1107

Complete Supplement Mixture w/o LEU, w/ 40mg/l ADE is used as a dropout supplement for all strains of *Saccharomyces cerevisiae*.

Composition**

Ingredients	Grams/Litre
Adenine	40.00
L-Arginine HCl	50.00
L-Aspartic acid	80.00
L-Histidine HCl	20.00
L-Isoleucine	50.00
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

Methodology

Suspend 720 mg 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

Complete Supplement Mixture w/o LEU, w/ 40mg/l ADE 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. Moreover, it contains 40 mg/l of adenine i.e. more than the required amount (10 mg/l). CSM w/o LEU does not contain leucine. 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 leucine prototrophs and wild type strains of *S. cerevisiae* but leucine auxotroph cannot grow in this media. Therefore, CSM w/o LEU can be used as drop-out formulation for the selection of auxotrophic requirements and transformants.

This is the minimum amount for healthy growth while maintaining red color in certain adenine auxotrophs. CSM formulations are available that contain 20 or 40 mg/liter of adenine.

Quality control

Appearance of Powder :

White to off-white, 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.

Disclaimer :

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