

Technical Information

Complete Supplement Mixture w/o URA

Product Code : G1112

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

Composition**

Ingredients	Grams/Litre
Adenine	10.00
L-Arginine HCl	50.00
L-Aspartic acid	80.00
L-Histidine HCl	20.00
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
L-Valine	140.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 770 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 URA 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 does not contain uracil, the pyrimidine derivative. 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 uracil prototrophs and wild type strains of *S. cerevisiae* but uracil auxotroph cannot grow in this media. Therefore, CSM w/o URA can be used as drop-out formulation for the selection of auxotrophic requirements and transformants.

Quality control

Appearance of Powder :

White to cream coloured, homogeneous, free flowing powder.

Colour and Clarity of prepared medium :

Colourless to light yellow coloured, clear solution without any precipitate.

Cultural Response :

Cultural characteristics observed after 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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