

## Technical Information

### Complete Supplement Mixture w/o ARG

#### Product Code : G1104

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

#### Composition\*\*

Ingredients	Grams/Litre
Adenine	10.00
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
Uracil	20.00
L-Valine	140.00

\*\* Formula adjusted, standardized to suit performance parameters

#### Methodology

Suspend 740 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 ARG 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 ARG does not contain arginine. 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 arginine prototrophs and wild type strains of *S. cerevisiae* but arginine auxotroph cannot grow in this media. Therefore, CSM w/o ARG can be used as drop-out formulation for the selection of auxotrophic requirements and transformants.

#### Quality control

##### Appearance of Powder :

White to off-white coloured, homogeneous, free flowing powder.

##### Colour and Clarity of prepared medium :

Light 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 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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