

Technical Information

Yeast Nitrogen Base (YNB) w/o Ammonium Sulphate, w/o Folic acid, w/o Riboflavin

Product Code: G1096

Yeast Nitrogen Base (YNB) w/o Ammonium Sulphate, w/o Folic acid, w/o Riboflavin is used for the growth of all strains of *Saccharomyces cerevisiae*.

Composition**

Ingredients	Grams/Litre
Potassium phosphate, monobasic	1000.00
Magnesium sulphate	500.00
Sodium chloride	100.00
Calcium chloride	100.00
Biotin	0.002
Calcium pantothenate	0.40
Inositol	2.00
Niacin	0.40
PABA	0.20
Pyridoxin, HCl	0.40
Thiamine HCl	0.40
Boric acid	0.50
Copper sulphate	0.04
Potassium iodide	0.10
Ferric chloride	0.20
Manganese sulphate	0.40
Sodium molybdate	0.20
Zinc sulphate	0.40

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 1.7 grams 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

Yeast Nitrogen Base (YNB) w/o Ammonium Sulphate, w/o Folic acid, w/o Riboflavin is used for the growth of all strains of *Saccharomyces cerevisiae*. This yeast strain is called budding yeast and is extensively studied microorganism in molecular and cell biology.

Yeast Nitrogen Base (YNB) w/o Ammonium Sulphate, w/o Folic acid, w/o Riboflavin is developed according to the formulae of Wickerham (1) and Burkholder (2) which supplies the required nutritional elements for budding yeast cells. This media is used for the classification of yeast strains based on the carbon and nitrogen requirements and it contains all the essential vitamins and inorganic salts except Ammonium sulphate and Potassium phosphate which are required for the propagation of yeast cells. Furthermore, this media does not contain the amino acids namely, histidine, methionine, leucine, lysine and tryptophan.

Quality control

Appearance of Powder :

Light yellow coloured, homogeneous, free flowing powder.

Colour and Clarity :

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.

References

1. Wickerham, L. J. 1951. Taxonomy of yeasts. Technical bulletin No. 1029, US. Dept. Agriculture.
2. Burkholder, P. R. 1943. Vitamin deficiencies in yeasts. Amer. J. Bot. 30:206-211.

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