

Technical Information

Yeast Nitrogen Base (YNB) Trace Elements

Product Code: G1099

Yeast Nitrogen Base (YNB) Trace Elements is used for the growth of all strains of *Saccharomyces cerevisiae*.

Composition**

Ingredients	Grams/Litre
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 1.84 mgs 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) Trace Elements 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) Trace Elements is developed according to the formulae of Wickerham (1, 2). This should be mixed with salts, amino acids, a carbon source and a nitrogen source for the vigorous growth of yeast strains.

Quality control

Appearance of Powder :

Light yellow to light brown coloured, homogeneous, free flowing powder.

Colour and Clarity :

Brownish 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. 1939. J. Tropical Med. Hyg. 42:176.
2. Wickerham. 1946. J. Bacteriol. 52:293.

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