

Technical Information

Yeast Nitrogen Base (YNB) w/ Ammonium Sulphate

Product Code: G1091

Yeast Nitrogen Base (YNB) w/ Ammonium Sulphate 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 |
| Folic acid | 0.002 |
| Inositol | 2.00 |
| Niacin | 0.40 |
| PABA | 0.20 |
| Pyridoxin, HCl | 0.40 |
| Riboflavin | 0.20 |
| 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 |
| Ammonium sulphate | 5000.00 |

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 6.7 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/ Ammonium Sulphate 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/ Ammonium Sulfate is developed according to the formulae of Wickerham and Burkholder (1, 2, 3) 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 which is required for the propagation of yeast cells.

Furthermore, this media does not contain the amino acids namely, histidine, methionine, leucine, lysine and tryptophan. Addition of a carbon source is required for the growth of *Saccharomyces cerevisiae*.

Quality control

Appearance of Powder :

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

Colour and Clarity :

Colour , 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.

Reference

1. Wickerham. L.J., 1946. J. Bacteriol. 52:293
2. Wickerham. L.J., 1951, U.S. Dept. Agric. Tech. Bull. No. 1029
3. urkholder, P.R. 1943. Vitamin Deficiencies in Yeasts. Amer. J. Bot. 30: 206 - 211

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