

Product Information

Yeast Nitrogen Base Without Amino Acids

Catalog Number **Y0626**

Store at Room Temperature

Product Description

Yeast Nitrogen Base Without Amino Acids contains the following components in the 1× Working Solution:

Component	Amount/Liter
Nitrogen Sources	
Ammonium sulfate	5.0 g
Vitamins	
Biotin	2.0 µg
Calcium pantothenate	400.0 µg
Folic acid	2.0 µg
Inositol	2,000.0 µg
Nicotinic acid	400.0 µg
<i>p</i> -Aminobenzoic acid	200.0 µg
Pyridoxine HCl	400.0 µg
Riboflavin	200.0 µg
Thiamine HCl	400.0 µg
Trace Elements	
Boric acid	500.0 µg
Copper sulfate	40.0 µg
Potassium iodide	100.0 µg
Ferric chloride	200.0 µg
Manganese sulfate	400.0 µg
Sodium molybdate	200.0 µg
Zinc sulfate	400.0 µg
Salts	
Potassium phosphate monobasic	1.0 g
Magnesium sulfate	0.5 g
Sodium chloride	0.1 g
Calcium chloride	0.1 g
Final pH: 5.4±0.2 at 25 °C	

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store powder at room temperature.

Store 1× and 10× solutions at 2-8 °C.

Procedure for Testing for Microbial Growth

1. Prepare a 10× Stock Solution by suspending 6.8 g of Yeast Nitrogen Base Without Amino Acids and 5 g of bacto dextrose (or an equivalent amount of carbohydrate) in 100 ml of distilled or deionized water.
2. Amino acids and other chemicals used for modifying the growth of yeast are added singly or in combination as determined experimentally.
3. Filter-sterilize the 10× Stock Solution and store at 2–8 °C.
4. To prepare a 1× Working Solution, aseptically pipette 0.5 ml of the 10× Stock Solution into 4.5 ml of sterile, distilled water in 16 mm cotton-stoppered tubes.
5. Mix thoroughly by shaking.
6. Tubes are then inoculated very lightly and placed at 25 °C.
7. Incubate for 6–7 days, read for growth, and reincubate for a total of 20–24 days.
8. Tubes are shaken to suspend the growth, and are placed against a white card bearing black lines approximately 3/4 mm wide. If the lines can't be seen through the culture or if the lines appear as diffuse, broad bands, the test for growth is positive. If the lines are not obscured, the test is negative.

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