

## PRODUCT INFORMATION

Yeast Nitrogen Base without Amino Acids

Cat. No. Y25-105

### DESCRIPTION

Yeast Nitrogen Base without Amino Acids is a broth medium used for classifying yeasts based on amino acid and carbohydrate requirements. It contains all the essential vitamins and inorganic salts necessary for the cultivation of yeasts, except for histidine, methionine, tryptophane and a carbohydrate source.

### FORMULA (g/L)

Ammonium Sulfate	5.0 g	Calcium Pantothenate	0.4 mg
Biotin	2.0 µg	Inositol	2.0 mg
Folic Acid	2.0 µg	p-Aminobenzoic Acid	0.2 mg
Niacin	0.4 mg	Riboflavin	0.2 mg
Pyridoxine Hydrochloride	0.4 mg	Boric Acid	0.5 mg
Thiamine Hydrochloride	0.4 mg	Potassium Iodide	0.1 mg
Copper Sulfate	40.0 µg	Manganese Sulfate	0.4 mg
Ferric Chloride	0.2 mg	Zinc Sulfate	0.4 mg
Sodium Molybdate	0.2 mg	Magnesium Sulfate	0.5 g
Monopotassium Phosphate	1.0 g	Calcium Chloride	0.1 g
Sodium Chloride	0.1 g		

Final pH: 5.4 ± 0.2 at 25 °C

\*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

### PREPARATION

Prepare a 10X solution by dissolving 6.7 g of the base, 5 g of Dextrose or an equivalent amount of other carbohydrate and 5-10 mg of the desired amino acid in 100 mL of purified water until evenly dispersed. Warm slightly in a 45-50 °C water bath with repeated stirring to dissolve. DO NOT BRING TO A BOIL. DO NOT AUTOCLAVE. Mix well and filter-sterilize. Store at 2-8 °C. Prepare the final medium by aseptically adding 0.5 mL of the 10X solution to 4.5 mL sterile water. Mix the solution by shaking gently prior to inoculation.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and off-white.
2. Visually the prepared medium is clear and almost colorless.
3. Expected cultural response after 2-5 days at 30 °C.

ORGANISM	RESULT (with supplements)
<i>Candida albicans</i> ATCC 10231	Good Growth
<i>Kloeckera apiculata</i> ATCC 9774	Good Growth
<i>Saccharomyces cerevisiae</i> ATCC 9080	Good Growth
<i>Saccharomyces cerevisiae</i> ATCC 9763	Good Growth

### STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.