



## **PRODUCT INFORMATION**

### **Yeast Nitrogen Base w/o Amino Acids (S507)**

**Description:**

Yeast Nitrogen Base without Amino Acids contains all essential nutrients and vitamins and inorganic salts necessary for the cultivation of yeasts except histidine, methionine, tryptophane and a source of carbohydrate.

**Use:**

Yeast Nitrogen Base without Amino Acids is used for classifying yeasts based on amino acid and carbohydrate requirements.

**Formula (per Liter):**

Ammonium Sulfate.....	5.0g		
Biotin .....	0.002mg	Calcium Pantothenate .....	0.4mg
Folic Acid.....	0.002mg	Inositol .....	2mg
Niacin.....	0.4mg	p-Aminobenzoic Acid .....	0.2mg
Pyridoxine Hydrochloride.....	0.4mg	Riboflavin.....	0.2mg
Thiamine Hydrochloride.....	0.4mg	Boric Acid.....	0.5mg
Copper Sulfate.....	0.04mg	Potassium Iodide.....	0.1mg
Ferric Chloride .....	0.2mg	Manganese Sulfate.....	0.4mg
Sodium Molybdate ..	0.2mg	Zinc Sulfate.....	0.4mg
Monopotassium Phosphate .....	1.0g	Magnesium Sulfate .....	0.5g
Sodium Chloride .....	0.1g	Calcium Chloride .....	0.1g

Final pH: 5.4 ± 0.2 at 25.0° C

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

**Preparation:**

Prepare a 10X solution by dissolving 6.7 grams of Yeast Nitrogen Base without Amino Acids, 5 grams of Dextrose or equivalent amount of other carbohydrate and 5-10 mg of the desired amino acid in 100ml distilled or deionized water. Warm slightly to dissolve. Mix well. DO NOT BRING TO A BOIL. DO NOT AUTOCLAVE. Filter-sterilize the solution. Store at 2-8°C. Prepare the final medium by aseptically pipetting 0.5ml of



the 10X solution into 4.5ml of sterile distilled water. Mix the solution thoroughly by shaking before inoculation.

### Quality Control Specifications:

1. The powder is homogeneous, free flowing and off-white.
2. Visually the prepared medium is clear and almost colorless.
3. Expected cultural response after 2-5 days at 25.0°C.

Organism	Result with Additives
Candida albicans ATCC 10231	Good Growth
Kloeckera apiculata ATCC 9774	Good Growth
Saccharomyces pastorianus ATCC 9080	Good Growth

### Storage:

Store the sealed bottle containing the dehydrated medium at 2 to 30.0°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 off-white color.