



## Product Information

### **Yeast Nitrogen Base w/o Amino Acids & w/o Ammonium Sulfate (S505)**

#### **Description:**

Yeast Nitrogen Base without Amino Acids and Ammonium Sulfate contains all essential nutrients and vitamins necessary for the cultivation of yeasts except amino acids and a source of nitrogen and carbohydrate.

#### **Use:**

Yeast Nitrogen Base without Amino Acids and Ammonium Sulfate is used for classifying yeasts based on carbon and nitrogen requirements.

#### **Formula (per Liter):**

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: 4.5  $\pm$  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 1.7 grams of Yeast Nitrogen Base without Amino Acids and Ammonium. Sulfate and nitrogen and carbon sources, as required, 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.