

PRODUCT INFORMATION

Yeast Nitrogen Base

Cat. No. Y25-104

DESCRIPTION

Yeast Nitrogen Base contains all the essential nutrients, vitamins and inorganic salts necessary for the cultivation of yeasts, except for a carbohydrate source.

FORMULA (g/L)

| | | | |
|--------------------------|---------|-------------------------------|---------|
| Ammonium Sulfate | 5.0 g | Inositol | 2.0 mg |
| Biotin | 2.0 µg | p-Aminobenzoic Acid | 0.2 mg |
| Folic Acid | 2.0 µg | Riboflavin | 0.2 mg |
| Niacin | 0.4 mg | Boric Acid | 0.5 mg |
| Pyridoxine Hydrochloride | 0.4 mg | Potassium Iodide | 0.1 mg |
| Thiamine Hydrochloride | 0.4 mg | Manganese Sulfate | 0.4 mg |
| Copper Sulfate | 40.0 µg | Zinc Sulfate | 0.4 mg |
| Ferric Chloride | 0.2 mg | Magnesium Sulfate | 0.5 g |
| Sodium Molybdate | 0.2 mg | Calcium Chloride | 0.1 g |
| Monopotassium Phosphate | 1.0 g | LD-Methionine | 20.0 mg |
| Sodium Chloride | 0.1 g | L-Histidine Monohydrochloride | 10.0 mg |
| Calcium Pantothenate | 0.4 mg | LD-Tryptophan | 20.0 mg |

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 and 5 g of Dextrose or an equivalent amount of other carbohydrate 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 to cream.
2. Visually the prepared medium is clear and almost colorless at 1X and pale to light yellow at 10X.
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.