PRODUCT INFORMATION

Yeast Nitrogen Base w/o Amino Acids & Ammonium Sulfate

Cat. No. Y25-106

YOUR MEDIA IS OUR CULTURE

ALPHA BIOSCIENCES

Date of Issue:
5/22/20

DESCRIPTION

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

PREPARATION

Prepare a 1X and 10X solution by mixing 0.17g of the base for 1X, and 1.7g of the base powder for 10X plus carbon and nitrogen sources, as required, 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 BOILING POINT. DO NOT AUTOCLAVE. Mix well and filter-sterilize. Prepare the final medium by aseptically adding 0.5 mL of the 10X solution to 4.5 mL sterile water. Mix solution by shaking gently prior to inoculation.

Formula* per Liter:

Biotin	2.0µg
Folic Acid	2.0µg
Niacin	400.0µg
Pyridoxine Hydrochloride	400.0µg
Thiamine Hydrochloride	400.0µg
Copper Sulfate	40.0µg
Ferric Chloride	200.0µg
Sodium Molybdate	200.0µg
Monopotassium Phosphate	1.0g
Sodium Chloride	0.1g
Calcium Pantothenate	400.0µg
Inositol	2.0mg
p-Aminobenzoic Acid	200.0µg
Riboflavin	200.0µg
Boric Acid	500.0µg
Potassium Iodide	100.0µg
Manganese Sulfate	400.0µg
Zinc Sulfate	400.0µg
Magnesium Sulfate	0.5g
Calcium Chloride	0.1g

Final pH: 4.5 ± 0.2 at 25°C

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

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and off-white to cream in color.
2. Visually the prepared medium is clear and almost colorless at 1X, pale to light yellow at 10X.
3. Expected cultural response after 2-5 days at 25°C to 30°C:

Organism:	**Expected Result (with growth supplements):**	**Expected Result (w/o growth supplements):**
Candida albicans ATCC® 10231	Good Growth	None to Poor Growth
Kloeckera apiculata ATCC® 9774	Good Growth	None to Poor Growth
Saccharomyces cerevisiae ATCC® 9080	Good Growth	None to Poor Growth
Saccharomyces cerevisiae ATCC® 9763	Good Growth	None to Poor 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.

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