Yeast Nitrogen Broth

Medium used for the classification and cultivation of yeasts based on carbon assimilation.

• CONTENTS (Liter)

Nitrogen source	
Ammonium Sulfate	5.0 g
Amino Acids	
L-Histidine Monohydrochloride	0.01 g
LD-Methionine	0.02 g
LD-Tryptophan	0.02 g
Vitamins	
Biotin	2.0 µg
Calcium Pantothenate	400.0 µg
Folic Acid	2.0 µg
Inositol	2000.0 µg
Niacin	400.0 µg
p-Aminobenzoic Acid	200.0 µg
Pyridoxine Hydrochloride	400.0 µg
Riboflavin	200.0 µg
Thiamine Hydrochloride	400.0 µg
Compounds Supplying Trace Elements	
Boric Acid	500.0 µg
Copper Sulfate	40.0 µg
Potassium Iodide	100.0 µg
Ferric Chloride	200.0 µg
Manganese Sulfate	400.0 µg
Sodium Molybdate	200.0 µg
Zinc Sulfate	400.0 µg
Salts	
Monopotassium Phosphate	1.0 g
Magnesium Sulfate	0.5 g
Sodium Chloride	0.1 g
Calcium Chloride	0.1 g

Final pH = 5.4 ± 0.2 at 25°C.

• PROCEDURE

Medium should be prepared in 10X strength. Suspend 6.76 G of powder in 100mL of distilled water or deionized water. Add 5 G of dextrose or equivalent amount of other carbohydrate. Mix well and sterilize the medium by filtration. DO NOT HEATING. Prepare the final medium by aseptically pipetting 1 mL of the solution into 9 mL of distilled or deionized water in tubes. Mix well. Keep refrigerated until used.

• INTERPRETATION

Yeast Nitrogen Broth is a medium used for the classification and cultivation of yeasts based on carbon assimilation. The medium contains all essential nutrients and vitamins necessary for growth of yeasts. Growth around the carbohydrate indicates that the sugar is assimilated as a carbon source by the yeast.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 25 ± 2°C for 2 - 7 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous.
Color: white.
Prepared medium
Appearance: clear.
Color: colorless.
Incubation conditions: 25 ± 2°C / 2 - 7 days

Microorganism	ATCC	Inoculum CFU	Growth
Saccharomyces cerevisiae	76625	50-100	good
Candida albicans	10231	50-100	good
Candida krusei	32196	50-100	good
Candida tropicalis	750	50-100	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

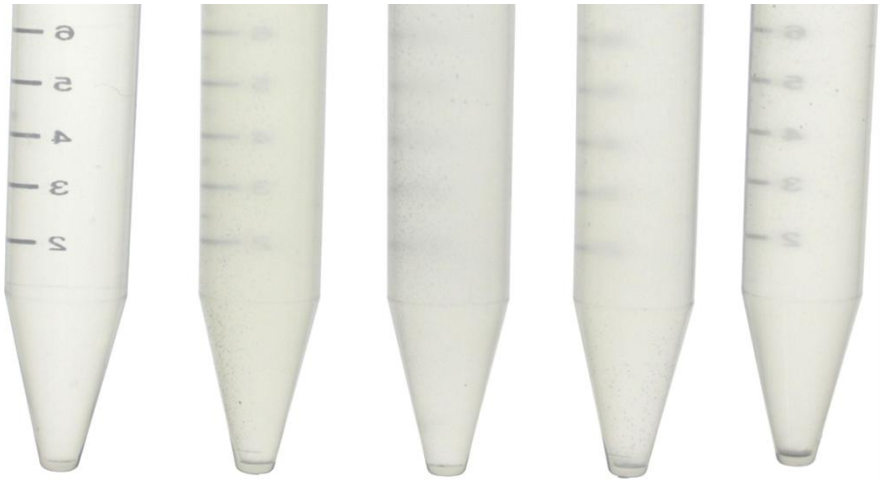
• REFERENCES

1. Beijerinck. 1889. Arch. Neerl. Sci. Exactes Nat. 23:367.
2. Haley, Trande land Coyle. 1980. Cumitech 11, Practical method for culture and identification of fungi in the clinical mycology laboratory. Coord. ed., Sherris. American Society for Microbiology, Washington, D.C.
3. Sherman, Fink and Hicks. 1986. Methods in yeast genetics. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y.
4. Wickerham. 1948. J. Bacteriol. 56:363.
5. Wickerham. 1951. Taxonomy of yeasts. Technical bulletin No. 1029, U.S.Dept Agriculture, Washington, D.C.
6. Wickerham and Burton. 1958. J. Bacteriol. 56:363.

• PACKAGE

Cat. No : MB-Y0614 Yeast Nitrogen Broth	500 G

• MICROBIAL CULTURE IMAGES



None | *S. cerevisiae* ATCC 76625 (100 CFU) | *C. albicans* ATCC 10231 (100 CFU) | *C. krusei* ATCC 32196 (100 CFU) | *C. tropicalis* ATCC 750 (100 CFU)

Incubation conditions : 25 ± 2℃ 2 -7 days

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