# **PRODUCT DATA SHEET**

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# TM 1119 - YEAST NITROGEN BASE

#### **INTENDED USE**

For classification of yeasts on the basis of their ability to assimilate carbon compounds.

# PRODUCT SUMMARY AND EXPLANATION

Yeast Nitrogen Base is formulated as per Wickerham for investigations of yeasts for their different abilities in carbon assimilation. With added carbon source it may also be used for susceptibility testing with antifungal drugs when defined liquid medium is needed. Inoculate media tubes with very light inoculum and incubate at 25°C for 6-7 days and again for 20-24 days. Draw lines with India ink on a paper and hold the paper against the Yeast Nitrogen Base tubes. If lines are not seen or appear diffused through the culture, the test is considered positive and if lines are distinguishable, test is negative.

# COMPOSITION

Ingredients	Gms / Ltr		
Ammonium sulphate	5.000		
L-Histidine hydrochloride	0.010		
<b>DL-Methionine</b>	0.020		
DL-Tryptophan	0.020		
Biotin	0.000002		
Calcium pantothenate	0.0004		
Folic acid	0.000002		
Inositol	0.002		
Niacin	0.0004		
p-Amino benzoic acid (PABA)	0.0002		
Pyridoxine hydrochloride	0.0004		
Riboflavin (Vitamin B2)	0.0002		
Thiamine hydrochloride	0.0004		
Boric acid	0.0005		
Copper sulphate	0.00004		
Potassium iodide	0.0001		
Ferric chloride	0.0002		
Manganese sulphate	0.0004		
Sodium molybdate	0.0002		
Zinc sulphate	0.0004		
Potassium dihydrogen phosphate	1.000		
Magnesium sulphate	0.500		
Sodium chloride	0.100		
Calcium chloride anhydrous	0.100		



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# PRINCIPLE

Histidine, methionine, and tryptophan provide necessary amino acids. Ammonium sulfate supplies a source of nitrogen. The medium also contains required vitamins, trace elements, and salts.

#### **INSTRUCTION FOR USE**

For best results, the medium should be prepared in 10X strength.

- Dissolve 6.75 grams in 100 ml purified / distilled water.
- Add 5 grams of dextrose or an equivalent amount of other carbohydrate.
- Warm if necessary to dissolve the medium completely.
- Sterilize by filtration. Keep refrigerated until use.
- Final medium is made by pipetting 0.5 ml into 4.5 ml of sterile purified / distilled water.

#### **QUALITY CONTROL SPECIFICATIONS**

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Colourless (at 10X concentration colour of medium is pale yellow) clear solution
	without any precipitate.
pH (at 25°C)	: 5.4±0.2

# INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	lnoculum (CFU/ml)	Growth	Growth w/ dextrose	Incubation Temperature	Incubation Period	Incubation Period (if necessary)
Kloeckera apiculata	9774	10-100	None-poor	Good	25-30°C	6-7 days	upto 24 days
Saccharomyces cerevisiae	9763	10-100	None-poor	Good	25-30°C	6-7 days	upto 24 days
Saccharomyces uvarum	28098	10-100	None-poor	Good	25-30°C	6-7 days	upto 24 days

#### PACKAGING:

In pack size of 100 gm bottles.

#### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 2-8°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

# DISPOSAL

A- 902A, RIICO Industrial Area, Phase III, Bhiwadi-301019.

# **PRODUCT DATA SHEET**



After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

#### REFERENCES

- 1. Isenberg, H.D. Clinical Microbiology Procedures Handbook Second Edition.
- 2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual Clinical Microbiology, 11th Edition. Vol. 1.
- 3. Lennette E. H., Balows, Hausler and Truant, (Eds.), 1980, Manual of Clinical Microbiology, 3rd Ed., ASM, Washington D.C.
- 4. Padhye A. A., 1981, Diagnostic Procedures for Bacterial, Mycotic and Parasitic Infections, 6th Ed., APHA, Washington, D.C.
- 5. Wickerham, 1951, U.S. Dept. Agri. Tech. Bull No. 1029.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. \*For Lab Use Only Revision: 08 Nov., 2019

