

Technical Information

Yeast Nitrogen Base w/o Amino Acids

Product Code: DM 1878

Application: - Yeast Nitrogen Base without Amino Acids is used for investigating carbon and nitrogen requirements of yeasts.

Composition**		
Ingredients	Gms / Litre	
Ammonium sulphate	5.000	
Monopotassium phosphate	1.000	
Magnesium sulphate	0.500	
Sodium chloride	0.100	
Calcium chloride	0.100	
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	
Biotin	0.000002	
Calcium pantothenate	0.0004	
Folic acid	0.000002	
Inositol	0.002	
Niacin	0.0004	
p-Amino benzoic acid (PABA)	0.0002	
Riboflavin (Vitamin B2)	0.0002	
Pyridoxine hydrochloride	0.0004	
Thiamine hydrochloride	0.0004	
Final pH (at 25°C)	5.4±0.2	
**Formula adjusted, standardized to suit performance		

Yeast Nitrogen Base without Amino Acids devised by Wickerham ^(1, 2) and is used for investigating amino acid and carbohydrate requirement of yeasts. This medium has the same composition as Yeast Nitrogen Base (DM1139) medium except the amino acids histidine, methionine and tryptophan.

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. If lines are not seen or appear diffused through the culture, the test is considered positive and if the lines are distinguishable, test is considered negative.

Methodology

For best results the medium is prepared in 10X strength. Suspend 6.7 as grams powder media in 100 ml distilled water. Add 5 grams dextrose or an equivalent amount of other carbohydrate and other chemicals like amino acids that modify growth of yeasts as desired and sterilize by filtration. For use, dilute 0.5 ml 10X medium to make 5 ml with sterile distilled water. Mix well.





Bases / Media Supplements

Quality Control

Physical Appearance

White to cream homogeneous free flowing powder

Colour and Clarity of prepared medium

Colourless to light yellow coloured clear solution without any precipitate

Reaction

Reaction of 0.67% w/v aqueous solution at 25°C. pH : 5.4±0.2

pH range 5.20-5.60

Cultural Response/Characteristics

DM 1878: Cultural characteristics observed after an incubation at 25-30°C for 6-7 days (longer if necessary upto 24 days).

Organism	Growth (Plain)	Growth with dextrose
Kloeckera apiculata ATCC 9774	none-poor	good
Saccharomyces uvarum ATCC 28098	none-poor	good

Storage and Shelf Life

Dried media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label. **Prepared Media:** 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

1. Wickerham L. J., 1951, U.S. Dept. Agric. Tech. Bull. No. 1029. 2. Wickerham L. J., 1946, J. Bacteriol., 52:293.

Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
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