Yeast Nitrogen Base w/o Amino Acids

M878

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 parameters

Directions

For best results the medium is prepared in 10X strength. Suspend 6.7 grams 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. Ensure complete solution and sterilize by filtration. For use, dilute 0.5 ml 10X medium to make 5 ml with sterile distilled water. Mix well.

Principle And Interpretation

Yeast Nitrogen Base without Amino Acids is formulated as per 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 (M139) 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.

Quality Control

Appearance
White to cream homogeneous free flowing powder

Colour and Clarity
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
5.20-5.60

Cultural Response
M878: 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
Store dehydrated powder and the prepared medium at 2 - 8°C. Use before expiry date on the label.

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

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