Yeast Nitrogen Base (YNB)

without amino acids and without ammonium sulfate

#GCM16.0500 (500g)

(FOR RESEARCH ONLY)

Product: Dehydrated powder for the preparation of YNB liquid medium for the classification of yeast based on their carbon and/or nitrogen requirements.

Quantity: 500g

Formulation (g/L)

YNB:	1.70	Ammonium sulfate	5.00
Final pH (25ºC):	5.4 ± 0.2		

Appearance: Beige powder. Stock solution should be green/yellow

Storage: 2ºC – 25ºC. When not in use, keep container closed to avoid hydration.

Bibliography:

Shadomy and Espinel Ingroff (1980) Susceptibility testing with antifungal drugs. P647-653 In E.H. Lennete *et al.* Manual of Clinical Microbiology 3rd ed. American Society for Microbiology, Waschington DC US Dept. Agric. Tech. Bul. No 1029.1951

Preparation:

Prepare a 10x stock solution by adding 6.7g of the dehydrated medium to 100ml of distilled water, and 5 grams of dextrose (glucose) or equivalent amount of another carbohydrate and 5-10mg of the desired amino acid(s). Mix well and dissolve by heating with regular agitation. Do **NOT** Boil. Do **NOT** autoclave. Sterilize the solution by filtration and store at 2ºC to 8ºC.

Usage:

Prepare Yeast Nitrogen Base medium by pipetting 0.5ml of the 10x stock solution into 4.5ml of distilled, sterile water. Mix by swirling before inoculation. YNB medium w/o added amino acids and w/o ammonium sulfate contains all the essential ingredients (see table below) that are required for the cultivation of yeast, except for the amino acids, a nitrogen source and a carbohydrate source.

Trace Elements per Liter.

Inositol……..…2.0mg	Boric Acid. ……..0.5mg	Manganese sulfate……0.4mg	Potassium Iodide.....0.1mg	Niacin……0.4mg
Pyridoxine HCL…0.4mg	$ZnSO_4$……..0.4mg	Sodium molybdate ……0.2mg	Thiamide HCL……0.4mg	Calcium Pantothenate 0.4mg
Ferric Chloride..…0.2mg	Biotin ……..0.002mg	Copper Sulfate……0.04mg	p-Aminobenzoic acid …0.2mg	Riboflavin……..0.2mg
Folic Acid……..…0.002mg	monopotassium phosphate….1.0g	Calcium Chloride……..0.1g	Sodium Chloride……0.1g	Magnesium sulfate……..0.5g