

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B829		YEAST MANNITOL BROTH				
Formula						
Ingredients:		gms/lit.				
Yeast extract		1.00				
Mannitol		10.00				
Dipotassium phosphate		0.50				
Magnesium sulphate		0.20				
Sodium chloride		0.10				
Calcium carbonate		1.00				
Final pH (at 25°C): 6.8 ± 0.2						
Directions:						
Suspend 12.8 grams in 1000 ml distilled water. Heat just to boiling. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense into sterile test tubes.						
Principle:						
Yeast extract serves as a good source of readily available amino acids, contain vitamin B complex and accessory growth factors for Rhizobia. It also poises oxidation – reduction potential of medium in the range favorable for Rhizobia and serves as hydrogen donor in respiratory process. Mannitol is the fermentable sugar alcohol source. Calcium and magnesium provide cations essential for the growth of Rhizobia.						
QC Tests – (I) Dehydrated Medium						
Colour:		White to cream				
Appearance:		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating):		6.8 ± 0.2				
Colour (post autoclaving/heating):		Whitish buff				
Clarity (post autoclaving/heating):		Opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 5 days at 25-30°C.						
MICROORGANISM (ATCC)		GROWTH				
Rhizobium meliloti (9930)		Luxuriant				
Rhizobium leguminosarum (10004)		Luxuriant				
Precautions :						
1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
Limitations :						
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
Use:						
For cultivation, isolation and enumeration of soil microorganisms like Rhizobium species.						
Storage:						
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing:						
500 gm. bottle						
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B829		12.8 g/l	39.06L	6.8 ± 0.2	Nil	121°C/15 min.

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Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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