

TECHNICAL SHEET

B827	YEAST MANNITOL AGAR					
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			
Agar			15.00			
Final pH (at 25°C) : 6.8 ± 0.2						
Directions :						
Suspend 27.8 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 pour into sterile Petri plates. Note : Due to presence of calcium carbonate, the prepared medium forms opalescent solution with white precipitate.						
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 favourable 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. Agar is the solidifying agent.						
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 an incubation at 25-30°C for upto 5 days.						
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
B827	27.8 g/l	17.98 L	6.8 ± 0.2	Nil	121°C/15 min.	