

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1076	JENSENS MEDIUM				
Formula					
Ingredients :					
		gms/lit.			
Sucrose		20.00			
Dipotassium phosphate		1.00			
Magnesium sulphate		0.50			
Sodium chloride		0.50			
Ferrous sulphate		0.10			
Sodium molybdate		0.005			
Calcium carbonate		2.00			
Agar		15.00			
Final pH (at 25°C) : Self					
Directions :					
Suspend 39.1 grams in 1000 ml purified / distilled water. Heat just to boiling. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50C. Mix well and pour into sterile Petri plates. Note: Due to presence of calcium carbonate, the medium forms opalescent solution with white precipitate.					
Principle:					
Sucrose acts as the energy source. Sodium molybdate in the media increases the fixation of nitrogen. Sodium chloride maintains osmotic equilibrium of the media. Calcium stimulates nodulation when present as chloride or sulphate.					
QC Tests – (I)Dehydrated Medium					
	Colour :	White to cream			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	Self			
	Colour (post autoclaving/heating) :	Cream			
	Clarity (post autoclaving/heating) :	clear to slightly opalescent with a slight precipitate.			
(III)Q.C. Test Microbiological					
Cultural characteristics observed at 30°C for 8 days.					
	MICROORGANISM (ATCC)	GROWTH			
	Rhizobium japonicum(10324)	luxuriant			
	Rhizobium legumin Sarum (10004)	luxuriant			
	Rhizobium oryzae (9363)	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 :					
	It is recommended for detection and cultivation of nitrogen fixing bacteria.				
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
B1076	39.1g/l	12.78 L	Self	Nil	121°C/15 min.

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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