BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B931	**ASHBY'S GLUCOSE AGAR**
Formula	
Ingredients :	**gms/lit.**
Glucose	20.00
Dipotassium phosphate	0.20
Magnesium sulphate	0.20
Sodium chloride	0.20
Potassium sulphate	0.10
Calcium carbonate	5.00
Agar	15.00
Final pH (at 25°C) : 7.4 ± 0.2	
Directions :	
Suspend 40.7 gms. in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121° C) for 15 minutes.	
Principle :	
It is used for isolation of Azotobacter, a nonsymbiotic nitrogen fixing bacteria which uses mannitol or glucose as a carbon source and atmospheric nitrogen as nitrogen source. Sodium chloride maintains osmotic balance of the medium. Atmospheric nitrogen is used as the source of nitrogen.	
QC Tests – (I)Dehydrated Medium	
Colour :	Off white
Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium	
pH (post autoclaving/heating) :	7.4 ± 0.2
Colour (post autoclaving/heating) :	Whitish
Clarity (post autoclaving/heating) :	Opalescent
(III)Q.C. Test Microbiological	
Cultural characteristics observed after 5 days at 35-37°C.	

MICROORGANISM (ATCC)	GROWTH				
Azotobacter nigricans (35009) (B932)	Luxuriant				
Azotobacter vinelandii (478)	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 :	**B931:** For cultivation of Azotobacter species that can use glucose /mannitol atmopheric nitrogen as source of carbon and nitrogen respectively.
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
B931	40.7 g/l	12.28 L	7.4 ±0.2	Nil	121^0C/15 min.