

TECHNICAL SHEET

B849	AZOTOBACTER AGAR (MANNITOL)					
Formula						
Ingredients :		gms/lit.				
Dipotassium phosphate	1.00					
Magnesium sulphate	0.20					
Sodium chloride	0.20					
Ferrous sulphate	Trace					
Soil extract	5.00					
Mannitol	20.00					
Agar	15.00					
Final pH (at 25°C) : 8.3 ± 0.2						
Directions :						
Suspend 41.4 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If slight precipitate occurs after autoclaving, distribute it evenly before pouring into sterile plates.						
Principle :						
This medium is used for isolation and cultivation of mannitol positive Azotobacter species from soil. Also useful for maintenance of Azotobacter species by adding extra 1% Mannitol to the medium.						
QC Tests - (I) Dehydrated Medium						
Colour :	Light beige					
Appearance :	Homogeneous Free Flowing powder					
(II) Rehydrated medium						
pH (post autoclaving/heating) :	8.3 ± 0.2					
Colour (post autoclaving/heating) :	Yellow					
Clarity (post autoclaving/heating) :	Clear to slightly opalescent					
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 24- 48 hrs. at 25-30°C.						
MICROORGANISM (ATCC)	GROWTH					
Azotobacter beijerinckii (12981)	Luxuriant					
Azotobacter nigricans (35009)	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 isolation, cultivation and identification of mannitol positive Azotobacter species from soil.						
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
B849	41.4 g/l	12.07 L		8.3 ± 0.2	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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