

TECHNICAL SHEET

B956		BURK'S MEDIUM			
Formula					
Ingredients :		gms/lit.			
Magnesium sulphate		0.20			
Dipotassium phosphate		0.80			
Monopotassium phosphate		0.20			
Calcium sulphate		0.13			
Ferric chloride		0.00145			
Sodium molybdate		0.000253			
Sucrose		20.00			
Final pH (at 25°C) : Self					
Directions :					
Suspend 21.3 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired					
Principle :					
The medium contains inorganic salts along with carbohydrate source but lack nitrogen source. Nitrogen fixing bacteria are able to fix atmospheric nitrogen and grow when cultured on this nitrogen-free medium.					
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) :		Colorless clear solution over white ppt.			
Clarity (post autoclaving/heating) :		Clear solution over white ppt.			
(III)Q.C. Test Microbiological					
		Cultural characteristics observed after 7 days at 30° C.			
MICROORGANISM (ATCC)		GROWTH			
Azotobacterbeijerinckii (12981)		Good to luxuriant			
Azotobacternigricans (35009)		Good to 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 :		Isolation and cultivation of nitrogen fixing bacteria such as <i>Azotobacter</i> species from soil.			
Storage :		Dehydrated medium- below 30°C.Prepared medium between 2-8 30°C.			
Packing :		500 gm. bottle			
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement
					Sterilization
B956		21.3g/l	23.474L	7.0 ± 0.2	NIL
					121°C / 15 minutes

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 BIOMARK LABORATORIES publications.

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