BIOMARK Laboratories-INDIA

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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. Nitorgen 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
	Azotobacter beijerinckii (12981)	Good to luxuriant
	Azotobacter nigricans (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 *Azotobacter* 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	121^0C / 15 minutes