BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B729 MIDDLEBRO	MIDDLEBROOK 7H10 AGAR BASE				
Formula					
Ingredients :	gms/lit.				
Ammonium sulphate	0.50				
L-Glutamic acid	0.50				
Monopotassium Phosphate	1.50				
Disodium phosphate	1.50				
Sodium citrate	0.40				
Ferric ammonium citrate	0.04				
Magnesium sulphate	0.025				
Calcium chloride	0.0005				
Zinc sulphate	0.001				
Copper sulphate	0.001				
Pyridoxine hydrochloride	0.001				
Biotin	0.0005				
Malachite green	0.00025				
Agar	15.00				
Final pH (at 25°C): 6.6 <u>+</u> 0.2					
Directions :					

Suspend 9.73 grams in 450 ml distilled water containing 2.5 ml glycerol. Heat to boiling to dissolve the medium completely. Sterilize at 15 lbs pressure (121°C) for 10 minutes. Cool to 45-50°C and aseptically add 50 ml Middlebrook OADC Growth Supplement (BF082). Mix well and pour into sterile screw capped tubes or containers.

Note: Keep prepared medium in the dark before and after inoculation.

Principle:

This medium consist of many inorganic salts which help for the growth of Mycobacteria. Citric acid formed from sodium citrate helps in retaining inorganic cations in solution. Glycerol supplies carbon and energy. Supplement OADC contains oleic acid, bovine albumin, sodium chloride, dextrose and catalase. Oleic acid and other long chain fatty acids are essential for metabolism of Mycobacteria. Dextrose is an energy source. Catalase neutralizes toxic peroxides while albumin protects tubercle bacilli from toxic agents. Malachite green partially inhibits other bacteria.

		ehydrated Medium		g. son partially minores sand sadding.		
Q.	Colour :	ciryaratea ricarain	Cream to light green			
	Appearance :		Homogeneous Free Flowing powder			
(II	(II)Rehydrated medium					
	pH (post autoclaving/heating) :		6.6 ± 0.2			
	Colour (post autoclaving/heating):		Very light amber			
	Clarity (post a	ity (post autoclaving/heating) :		Clear to slightly opalescent gel with greenish tinge		
(I]	(III) Q.C. Test Microbiological					
		al characteristics observed with added Middlebrook OADC Growth Supplement (BF082)				
	and glycerol after an incubation at 35-37°C for 2-4 weeks					
	MICROORGAN	ISM (ATCC)		GROWTH		
	Mycobacteriur	n tuberculosis H37 RV (2:	5618)	Good-luxuriant		
	Mycobacteriur	n smegmatis (14468)		Good-luxuriant		
	Mycobacterium fortuitum (6841)			Good-luxuriant		
Pre	Precautions: 1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposinfectious materials.						

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Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be							
	 encountered that fail to grow or grow poorly on this medium. 2. Negative culture results do not rule out active infection by mycobacteria. Some factors that are responsible for unsuccessful cultures are; The specimen was not representative of the infectious material, i.e. saliva instead of sputum. The mycobacteria were destroyed during digestion and decontamination of the specimen. Gross contamination interfered with the growth of the mycobacteria. Proper aerobic conditions and increased CO₂ tension were not provided during incubation. 							
Use :	For isolation, cultivation and sensitivity testing of Mycobacterium tuberculosis .							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing:	500 gm. bottle							
Product profile:		Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization			
B729	19.46 g/l	25.69L	6.6 ± 0.2	Middlebrook OADC Growth Supplement (BF082)	121°C / 10 minutes			

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained

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