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B727 MIDDLEBROOK 7H10 AGAR BASE, SPECIAL							
Formula							
Ingredients :	gms/li	t.					
Amonium 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	0.05						
Pyridoxine hydrochloride	0.001						
Biotin	0.0005						
Malachite green	0.001						
Agar	15.00						
Final pH (at 25°C) : 6.6 <u>+</u> 0.2							
Directions :							
Suspend 19.49 gms in 900 ml distilled water containing 5ml. glycerol. Boil to dissolve the medium							
			rilize at 15 lbs pressure (121°C) for 10				
			add 20ml. Middlebrook OADC Growth				
Supplement. Mix well and pour into st	erile scre	ew capped tub	es or containers.				
NOTE: Keep prepared medium in the	dark befo	ore and after in	noculation.				
Principle :							
			he growth of Mycobacteria. Citric acid				
			ations in solution. Glycerol supplies				
carbon and energy. Supplement OADC contains oleic acid, bovine albumin, sodium chloride,							
			/ acids are essential for metabolism of				
			itralizes toxic peroxides while albumin				
protects tubercle bacilli from toxic age	nts. Mal	achite green p	artially inhibits other bacteria.				
QC Tests – (I)Dehydrated Medium							
Colour :		Cream to light green					
Appearance :	Hor	Homogeneous Free Flowing powder					
(II)Rehydrated medium							
pH (post autoclaving/heating) :	6.6 ± 0.2						
Colour (post autoclaving/heating) :	Ver	Very light amber					
Clarity (post autoclaving/heating) :	Slig	Slightly opalescent					
(III) Q.C. Test Microbiological							
Cultural characteristics observed af	ter 2-4 v	veeks at 35-37	7°C.				
MICROORGANISM (ATCC)		GROWTH					
Mycobacterium tuberculosis H37 RV		Luxuriant					
(25618)							
Mycobacterium smegmatis (14468)	)	Luxuriant					
Mycobacterium fortuitum (6841)		Luxuriant					
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Precautions : 1. For Laboratory Us	se.	•					
2. Follow proper, established laboratory procedures in handling and disposing of							
infectious materials.		, P.	······································				

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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 ;							
	<ul> <li>The specimen was not representative of the infectious material, i.e. saliva instead of sputum.</li> </ul>							
	<ul> <li>The mycobacteria were destroyed during digestion and decontamination of the specimen.</li> </ul>							
	Gross contamination interfered with the growth of the mycobacteria.							
	• Proper aerobic conditions and increased CO <sub>2</sub> tension were not provided during							
	incubation.							
Use :	For 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			
B727	19.49g/l	25.654L	6.6 ± 0.2	Middlebrook OADC Growth	121ºC / 10 minutes			
				Supplement				

Page 02 of 02