BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B176 DUBOS BROT	H BASE					
Formula						
Ingredients:	gms/lit.					
Casein enzymic hydrolysate	0.50					
L-Aspargine	2.00					
Polysorbate 80	0.20					
Monopotassium phosphate	1.00					
Disodium phosphate	2.50					
Ferric ammonium citrate	0.05					
Magnesium sulphate	0.01					
Calcium chloride	0.0005					
Zinc sulphate	0.0001					
Copper sulphate	0.0001					
Final pH (at 25°C): 6.6 <u>+</u> 0.2						
Directions :						
Suspend 1.3 gms.in 180 ml. dis	stilled water cont	aining 10 ml glycerol. Boil if necessary to dissolve the				
medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and						

aseptically add 20 ml sterile bovine albumin V or sterile serum to each 180 ml of broth base.

Principle:

Colour:

QC Tests - (I)Dehydrated Medium

Dubos Broth Base contain casein enzymic hydrolysate and L-asparagine as source of nutrients, inorganic salts provide ions required for the metabolism. Polysorbate 80 is an oleic acid ester, which supplies essential fatty acids for the replication of Mycobacteria and the media has strong buffering system. Dubos broth base enriched with serum will generally initiate growth from smaller inocula and yield more luxuriant growth than the basal medium enriched with albumin V. Growth is generally more granular with the serum enrichment, while it is more diffused with albumin enrichment. Maximum care should be taken while handling mycobacterial cultures as they are highly infectious.

Light yellow to beige

		Но	Homogeneous Free Flowing powder							
(II)	(II)Rehydrated medium									
	pH (post autoclaving/heating):			6.6 ± 0.2						
	Colour (post autoclaving/heating):			ht yellow	1					
	Clarity (post autoclaving/heating):			ar						
(II	I)Q.C. Test Mi									
				added sterile bovine albumin V or sterile serum after an						
	incubation at 35-37°C for 2-6 weeks with 5-10% CO2									
	MICROORGANISM (ATCC)			GROWTH						
	Mycobacterium tuberculosis H37Rv(256)									
	Mycobacterium kansasii (12478)			Good – luxuriant						
	Mycobacterium gordonae (14470)				Good – luxuriant					
	Mycobacterium avium (25291)			Good – luxuriant						
	Mycobacterium smegmatis (14468)		468)	Good	Good – luxuriant					
		T								
infectious materials.			oer, establis rials.	blished laboratory procedures in handling and disposing of						
Lin	nitations :	 Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. Negative culture results do not rule out active infection by mycobacteria. Some 								
		 The sp instead The my specime Gross c Proper incubat 	hat are responsible for unsuccessful cultures are ; The specimen was not representative of the infectious material, i.e. salival 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 CO_2 tension were not provided during incubation.							
	3. Mycobacteria are strict aerobes and growth is stimulated by increased levels of CC Screw caps on tubes or bottles should remain loose for a free exchange of CO ₂ .							nge of CO ₂ .		
Us	se: For preparation of liquid medium for rapid cultivation of pure cultures of Mycobacterium tuberculosis and related microorganisms.									
Sto	orage :	: Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.								
	cking :	500 gm bottle								
Pro	oduct profile:	Reconstitution	Quantity on Preparation		pH (25°C)	Supple	ement	Sterilization		
B1	76	7.22g/l	69.25		6.6 ± 0.2	sterile albumin sterile se	V or	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 BIOMARKLABORATORIES publications.

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