## **BIOMARK Laboratories-INDIA**

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# **TECHNICAL SHEET**

B1299 DIAGNOST	DIAGNOSTIC SENSITIVITY TEST AGAR (D.S.T. AGAR)					
Formula						
Ingredients:	gms/lit.					
Proteose peptone	10.00					
Veal infusion solids	10.00					
Dextrose	2.00					
Sodium chloride	3.00					
Disodium phosphate	2.00					
Sodium acetate	1.00					
Adenine sulphate	0.01					
Guanine hydrochloride	0.01					
Uracil	0.01					
Xanthine	0.01					
Aneurine	0.00002					
Agar	15.00					
Final pH (at 25°C): 7.4 <u>+</u> 0.	2					
<u> </u>						

## **Directions:**

Suspend 43.04 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For blood agar, cool the base to  $50^{\circ}$ C and add 7% v/v sterile defibrinated horse blood aseptically. Mix well with gentle rotation and pour into sterile Petri plates.

## Principle:

The medium is nutritionally rich due to presence of amino acid bases and glucose. The salts present, helps in avoiding sudden pH shifts due to acid production, which might affect the susceptibility test and haemolytic reactions and the MIC values of pH susceptible antimicrobials. Aneurine acts as vitamin source which improves the growth of several organisms especially Staphylococci. The agar used in the formulation has been specially processed to allow unimpeded diffusion of antimicrobials from discs. Addition of the bases like adenine, guanine, uracil and xanthine improve the antibiotic testing performance of the medium.

				inprove the c	incibiotic testing pe			
QC Tests - (I)	ehydrated Med	ium						
Colour:	ur:		Cream to yellow					
Appearance :			Homogeneous Free Flowing powder					
(II)Rehydrated	medium							
PH (post autoclaving/heating):		:	$7.4 \pm 0.2$					
Colour (post autoclaving/heating) :		eating):	A) Basal medium : Cream to medium amber					
2. 37		B) (After addition of blood): Cherry red						
Clarity (post autoclaving/heating):		eating):	A) Clear to slightly opalescent					
			B) Opaque					
	Microbiologic							
_	racteristics obs	erved after :	18-24 l	hrs.at 35-37	°C.			
	NISM (ATCC )	GF	ROWTH	(WITHOUT	ANTIBIOTICS)			
			ıxurian					
	` '		Luxuriant					
			ıxurian	t (with the a	ddition of blood)			
	Proteus mirabilis (25933)		ıxurian	t				
	Salmonella typhi ( 6539 )		Luxuriant					
	Shigella flexneri (12022)		Luxuriant					
	· ' '		Luxuriant					
	` '		Luxuriant					
			Luxuriant (with the addition of blood)					
	us pneumoniae		ıxurian	t				
Precautions:	1. For Laborat	ory Use.						
		er, established	ed laboratory procedures in handling and disposing of infectious					
	materials.							
Limitations :	, , , , , , , , , , , , , , , , , , , ,						ncountered	
	that fail to grow							
Use :	It is used as an antibiotic sensitivity-testing medium for antibiotic sensitivity testing of fastidious pathogens such as Neisseria, Streptococcus and Haemophilus species with blood							
		ogens sucn as	s iveiss	eria, Strepto	ococcus and Haemo	pniius species	s with blood	
Chausana .	enrichment.	- d:a la al a	2000 5		di Daha.a. 2 t	- 000		
Storage :		edium- below	30°C F	repared me	dium- Between 2 t	0 8°C.		
Packing:	500 gm bottle	Ougatity co		~LL (2E0C)	Cumulana	- ant	Chamiliantian	
<b>Product</b> Reconstitution Quantity on Preparation		Preparation (	(500a)	pH (25°C)	Supplem	ieni	Sterilization	
B1299	43.04g/l	11.617		74 + 0 2	7% v/v sterile	defibrinated	121 <sup>0</sup> C / 15	
D1233	75.079/1	11.01/	_	/.7 ± 0.2	horse blood	denominated	minutes	
	<u> </u>	<u>I</u>		l	morac blood		minuces	

# 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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