B172 DIAGNOSTIC SENSITIVITY TEST AGAR (D.S.T. AGAR)							
Formula							
Ingredients:	gms/lit.						
Proteose peptone	10.00						
Veal infusion solids	0.00						
Dextrose	2.00						
Sodium chloride	3.00						
Disodium phosphate	2.00						
Sodium acetate	1.00						
Adenine sulphate	0.01						
Guanine hydrochloride	.01						
Uracil	01						
Xanthine	0.01						
Aneurine	0.00002						
Agar	15.00						
Final pH (at 25°C) : 7.4 <u>+</u> 0.2							
Directions :							
	nl distilled water. Heat to boiling to dissolve the medium						
	at 15 lbs pressure (121°C) for 15 minutes. For blood agar, cool						
	v/v sterile defibrinated horse blood aseptically. Mix well with						
gentle rotation and pour into sterile F Principle :	Petri plates.						
	The medium is nutritionally rich due to presence of amino acid						
	ent, help in avoiding sudden pH shifts due to acid production						
	ty test and haemolytic reactions and the MIC values of pH						
	e acts as vitamin source. Addition of the bases like adenine,						
	e the antibiotic testing performance of the medium. Agar is the						
solidifying agent.	e the untibiotic testing performance of the medium. Agains the						
QC Tests – (I)Dehydrated Medium							
Colour :	Cream to yellow						
Appearance :	Homogeneous Free Flowing powder						
(II)Rehydrated medium							
PH (post autoclaving/heating) :	$7.4 \pm 0.2$						
Colour (post autoclaving/heating)							
	B) After addition of blood: Cherry red						
Clarity (post autoclaving/heating)							
	B) Opaque						
(III)Q.C. Test Microbiological							
Cultural characteristics observed	after 18-24 hrs.at 35-37°C.						
MICROORGANISM (ATCC )	GROWTH (WITHOUT ANTIBIOTICS)						
Escherichia coli (25922)	Luxuriant						
Micrococcus luteus (10240)	Luxuriant						
Neisseria meningitides (13090)	Luxuriant (with the addition of blood)						
Proteus mirabilis (25933)	Luxuriant						
Salmonella typhi ( 6539 )	Luxuriant						
Shigella flexneri (12022)	Luxuriant						
Staphylococcus aureus (25923)	Luxuriant						
Streptococcus faecalis (29212)	Luxuriant						
Streptococcus pyogenes (19615)							
Streptococcus preumoniae (6303							

## BIOMARK Laboratories-INDIA www.biomarklabs.com TECHNICAL SHEET

Precautions :	1 For Laborate						
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.						
	2. Inoculum density affects inhibiton zone. Heavy inoculum may result in smaller zones						
	while scanty growth may result in enlarged zones.						
	3. 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.						
Use :	For antibiotic sensitivity testing of fastidious pathogens such as Neisseria, Streptococcus						
	and Haemophillus species with blood enrichments.						
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing :	500 gm bottle						
Product profile:	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization		
•		Preparation (500g)	,				
B172	43.04 g/l	11.617 L	7.4 ± 0.2	7% v/v sterile	121ºC / 15 minutes		
				defibrinated	-		
				horse blood			

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