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TECHNICAL SHEET

PP014	Mannitol Salt Agar Plates		
Formula			
Ingredients:	gms/lit.		
Proteose pepto	one 10.00		
Meat Extract B	B# 1.00		
Sodium chlorid	de 75.00		
D-Mannitol	10.00		
Phenol red	0.025		
Agar 15.00			
#- Equivalent to Beef extract			
Final pH (at 25°C): 7.4 <u>+</u> 0.2			
Directions:	•		

Label the ready to use plate (PP014). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Principle:

Mannitol Salt Agar contains Proteose Peptone and Meat Extract B as sources of carbon, nitrogen, vitamins and minerals. D-Mannitol is the carbohydrate source. Sodium Chloride, in high concentration, inhibits most bacteria other than staphylococci. Phenol Red is the pH indicator. Agar is the solidifying agent. Bacteria that grow in the presence of a high salt concentration and ferment mannitol produce acid products which turn the phenol red pH indicator from red to yellow. Typical pathogenic staphylococci (coagulase -positive staphylococci) ferment mannitol and form yellow colonies with yellow zones around the colonies. Typical non - pathogenic staphylococci do not ferment mannitol and form red colonies.

(I)	QC Tests						
	pH:	7.4 ±	0.2				
	Color: Red coloured medium.						
	Appearance:	Sterile plates.	Mannitol	SaltAgar	in	85mm	disposable
(II)Sterility test		Passes release criteria					
(III)Q.C. Test Microbiological							

Growth promotion was carried out in accordance with the standard method and growth was observed after an incubation at 30-35°C for the specified time. Recovery rate is considered 100% for bacteria growth on Sovabean Casein Digest Agar.

rate is considered 100% for bacteria growth on Soyabean Casein Digest Agar.				Agar.
MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH	Recovery	COLOR OF COLONY
Staphylococcus aureus 6538	50 -100	luxuriant	≥50 %	yellow/white
				colonies
				surrounded by yellow
				zone
Staphylococcus aureus 25923	50 -100	luxuriant	≥50 %	yellow/white colonies surrounded by yellow zone
Staphylococcus epidermidis 12228	50 -100	fair - good	30 -40 %	Red
Staphylococcus epidermidis14990	50 -100	fair - good	30 -40 %	Red
Proteus mirabilis 12453	≥10³	None- poor	0 -10%	yellow

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Escherichia coli 8739	≥10³	inhibited	0 -0 %	_
Escherichia coli 25922	≥10³	inhibited	0 -0 %	-
Escherichia coli 9002	≥10 ³	inhibited	0 -0 %	-
Enterobacter aerogenes13048	≥10³	inhibited	0 -0 %	-

Refer disclaimer Overleaf

Precautions :	1. In Vitro diagnostic use only.				
	2. Read the label before opening the container				
Limitations :	ions: 1. Since the nutritional requirements of organisms vary, some strains may be				
	encountered that fail to grow or grow poorly on this medium.				
Use:	For selective isolation of pathogenic Staphylococci.				
Storage:	Store between 15-25°C. Use before expiry date on the label.				
Packing:	20/50 disposable plates.				

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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