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#### **TECHNICAL SHEET**

B612	MANNITOL SALT AGAR										
Formula											
Ingredients:		gn	ıs/lit.								
Proteose peptone		10	.00								
Meat extract B#		1	.00								
Sodium chloride		75	.00								
D-Mannitol		10	.00								
Phenol red		0.0	025								
Agar		15	.00								
#- Equivalent to E	Beef extract										
Final pH (at 25°C)	): 7.4 <u>+</u> 0.2										
Directions :											
Suspend 111ams	in 1000 ml.	distilled	water.	Boil	to	dissolve	the	medium	completely.	Sterilize	bv

Suspend 111gms. in1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Mix well & dispense as desired.

#### **Principle:**

Mannitol Salt Agar contains Proteose Peptone and Beef Extract 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.

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QC	Tests - (I)De	hydrated Medi	ium							
	Colour:			Light yellow to pink						
	Appearance:			Homogeneous Free Flowing powder						
(II	(II)Rehydrated medium			-						
	pH (post autoc	laving/heating)	:	7.4 ± 0.2						
	Colour (post autoclaving/heating) :			Orangish red to red						
	Clarity (post autoclaving/heating) :			Clear to slightly opalescent						
(III) Q.C. Test Microbiological										
	Cultural characteristics observed after 18 - 72 hours at 35 - 37°C.									
	MICROORGANISM (ATCC )			GROWTH	COLOUR OF (	COLOUR OF COLONY				
	Staphylococcus aureus (25923)			Luxuriant	Yellow/white	Yellow/white colonies surrounded by yellow zone				
	Staphylococcus aureus (6538)			Luxuriant	Yellow/white	Yellow/white colonies surrounded by yellow zone				
	Staphylococcus epidermidis (14490)			Fair to good	Red					
				Fair to good	Red					
	Escherichia coli (25922)			Inhibited	nhibited					
	Escherichia coli (8739)			Inhibited	ited					
	Proteus mirabilis (12453)			None-poor Yellow						
Pre	<b>Precautions:</b> 1. For Laboratory Use.									
				shed laboratory procedures in handling and disposing of						
		infectious mate								
<b>Limitations :</b> 1. Since the nutritional requirements of organisms vary, some strains may be							ns may be			
		encountered that fail to grow or grow poorly on this medium.								
	se: For selective isolation of pathogenic Staphylococci as per I.P.									
	orage: Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.									
	Packing: 500 gm. bottle						_			
Product profile:					pH (25°C)	Supplement	Sterilization			
				ion (500g)						
В6	12	111g/l	4	.05L	7.4 <u>+</u> 0.2	Nil	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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