

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

BH612	MANNITOL SALT AGAR		
Formula			
Ingredients:	Gms /lit.		
Peptic digest of casein	5.00		
Peptic digest of animal tissue	5.00		
Meat extract B	1.00		
Sodium chloride	75.00		
D-Mannitol	10.00		
Phenol red	0.025		
Agar	15.00		
Final pH (at 25°C) : 7.4 ± 0.2			
Directions :			
Suspend 111.02 grams in 1000 ml purified/ distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes or as per validated cycle. Mix well & dispense as desired.			
Note: This product contains 7.5% Sodium chloride as one of its ingredients. On repeated exposure to air and absorption moisture sodium chloride has tendency to form lumps, therefore storage in tightly closed containers in dry place away from bright light.			
Principle :			
The medium contains Meat extract, pancreatic digest of casein and peptic digest of animal tissue which makes it very nutritious as they provide carbon, nitrogen compounds, long chain amino acids, vitamins and other essential growth factors and trace nutrients. Many other bacteria except Staphylococci are inhibited by 7.5% sodium chloride. Mannitol is the fermentable carbohydrate fermentation of which leads to acid production, detected by phenol red indicator. S.aureus ferment mannitol and produce yellow coloured colonies surrounded by yellow zones. Coagulase-negative strains of S.aureus are usually mannitol non-fermenters and therefore produce pink to red colonies surrounded by red-purple zones. Presumptive coagulase-positive yellow colonies of S.aureus should be confirmed by performing the coagulase test tube or slide.			
QC Tests – (I)Dehydrated Medium			
	Colour :	Light yellow to pink	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/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 COLONY
	Staphylococcus aureus (25923)	Luxuriant	yellow/white colonies surrounded by yellow zone
	Staphylococcus aureus ATCC (6538)	Luxuriant	yellow/white colonies surrounded by yellow zone
	Staphylococcus epidermidis (12228)	Fair to good	Red
	Proteus mirabilis (12453)	None-poor	Yellow
	Escherichia coli (25922)	Inhibited	---
	Escherichia coli ATCC 8739	Inhibited	---
	Escherichia coli (NCTC9002)	Inhibited	---
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		
Limitations :	This medium is a selective medium; some strains of Staphylococcus aureus may exhibit a delayed fermentation of mannitol.		

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Use :	For selective isolation of pathogenic Staphylococci from pharmaceutical products in accordance to microbial limit testing by harmonized system of USP/BP/EP/JP.				
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
BH612	111.02 g/l	4.50 L	7.4 ± 0.2	Nil	121 ⁰ C/15min.

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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