# **BIOMARK Laboratories-INDIA**

### www.biomarklabs.com

# **TECHNICAL SHEET**

BH612 MANNITOL SALT	MANNITOL SALT AGAR					
Formula						
Ingredients:	gms/lit.					
Peptic digest of casein	5.00					
Peptic digest of animal tissue	5.00					
Beef extract	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. 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 beef extract, pancreatic digest of casein and peptic digest of animal tissue which makes it very nutritious as they provide 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.

QC	Tests - (I)De	hydrated Mediun	n							
	Colour:			Light yellow to pink						
	Appearance :			Homogeneous Free Flowing powder						
(II	(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						
(II	I) Q.C. Test Mi									
	Cultural characteristics observed after 18 - 72 hours at 35 - 37°C.									
	MICROORGANISM (ATCC )			ROWTH		COLOUR OF COLONY				
	Staphylococcus aureus (25923)		Lu	ıxuriant		vellow/white colonies surrounded by yel		ed by yellow		
						zone				
				ir to good						
					Yellow					
	Escherichia coli (25922)			hibited						
_				hibited	ed					
Precautions :		1. For Laboratory Use.								
		2. Follow proper, established laboratory procedures in handling and disposing of								
infectious materials.										
			tional requirements of organisms vary, some strains may be							
	encountered that fail to grow or grow poorly on this medium.									
US					pathogenic Staphylococci from pharmaceutical products					
CL	in accordance to microbial limit testing by harmonized system of USP/BP/EP/JP.									
	rage :									
	Packing: 500 gm. bottle			it. on		~LL (2E0C)	Complement	Charilination		
Product profile:			Quanti Prepar	ation (500	a)	pH (25°C)	Supplement	Sterilization		
ВН	612		4.50 L			7.4 ± 0.2	Nil	121°C/15min.		