

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B146</b>	<b>COAGULASE MANNITOL BROTH BASE</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Meat Heart muscle,infusion from #		375.00				
Peptic digest of animal tissue		10.00				
d-Mannitol		10.00				
Sodium chloride		5.00				
Phenol red		0.025				
# Equivalent to heart muscle infusion from						
Final pH (at 25°C) : 7.4 ± 0.2						
<b>Directions :</b>						
Suspend 35 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Just before use aseptically add 12-15% v/v sterile, pretested coagulase plasma. Mix well.						
<b>Principle :</b>						
The medium is recommended for simultaneously detecting mannitol fermentation and coagulase production by Staphylococci. Coagulase Mannitol broth base is a good substrate for Staphylococci as well as other fastidious bacteria. Coagulase production and mannitol fermentation shown in this medium is the presumptive identification of pathogenic Staphylococci. When an organism ferments the added carbohydrate, the pH of the medium drops which results in a change in the colour of phenol red from red – orange to yellow. Production of gas can be determined by placing a small inverted Durham tube in the medium tube.						
<b>QC Tests – (I)Dehydrated Medium</b>						
Colour :		Light yellow to light Pink				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Red				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 –48 hrs. at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH	ACID FROM MANNITOL	COAGULASE ACTIVITY		
Staphylococcus aureus (25923)		Luxuriant	+	+		
Staphylococcus epidermidis (12228)		Luxuriant	-	-		
<b>Precautions :</b>						
1. For Laboratory Use.						
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
<b>Limitations :</b>						
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
<b>Use :</b>						
For the simultaneous detection of coagulase production and mannitol fermentation in the differentiation of Staphylococci.						
<b>Storage :</b>						
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
<b>Packing :</b>						
500 gm bottle						
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B146</b>		35g/l	14.28L	7.4 ± 0.2	12-15% v/v sterile, pretested coagulase plasma	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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