

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B572</b>	<b>MUCATE BROTH</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Mucic Acid		10.00			
Peptic digest of animal tissue		10.00			
Bromothymol blue		0.024			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 20 gms. in 1000ml distilled water. Dissolve Mucic acid by slowly adding 5N sodium hydroxide and stirring. Dispense in 5 ml. amounts in screw – capped tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes.					
<b>Principle :</b>					
Mucic acid is a saccharolactic acid or also called as tetrahydroxyadipic acid and act as a carbon source in the medium. It is fermented by enteropathogenic E.coli, Salmonella paratyphi B and also by Klebsiellapneumoniae to produce acid which makes the medium yellow as the pH indicator is bromothymol blue. Peptic digest of animal tissue supplies the necessary nutrients to the organisms.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Blue			
Clarity (post autoclaving/heating) :		Clear			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 24- 48 hrs.at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH		COLOUR OF THE MEDIUM	
Escherichia coli (25922)		Luxuriant		Yellow	
Klebsiellapneumoniae (13883 )		Luxuriant		Yellow	
Salmonella paratyphi B		Luxuriant		Yellow	
<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 identification of enteropathogenic E.Coli and Shigella species from milk and milk products.					
<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>B572</b>	20g/l	25L	7.4 ± 0.2	NIL	121°C / 10 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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