

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B579</b>		<b>MOTILITY TEST MEDIUM</b>				
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Tryptose		10.00				
Sodium chloride		5.00				
Agar		5.00				
Final pH (at 25°C):		7.2 ± 0.2				
<b>Directions :</b>						
Suspend 20 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow tubed medium to cool in an upright position.						
<b>Principle :</b>						
Tryptose serve as a source of essential growth nutrients required for bacterial metabolism. Sodium chloride maintains the osmotic equilibrium of the medium. Small amount of agar helps to create a semisolid medium.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent gel forms in tubes as butt				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours.						
MICROORGANISM (ATCC )		GROWTH	MOTILITY			
Escherichia coli (25922)		luxuriant	positive, growth away from stabline causing turbidity			
Enterobacter aerogenes (13048)		luxuriant	positive, growth away from stabline causing turbidity			
Klebsiella pneumoniae 913883)		luxuriant	negative, growth along the stabline, surrounding medium remains clear			
Salmonella Enteritidis (13076)		luxuriant	positive, growth away from stabline causing turbidity			
Staphylococcus aureus (25923)		luxuriant	negative, growth along the stabline, surrounding medium remains clear			
<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>		It is recommended for detection of bacterial motility.				
<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>B579</b>		20.0 g/l	25.0 L	7.2 ± 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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