

**TECHNICAL SHEET**

<b>B1139</b>	<b>B.T.B. LACTOSE AGAR, MODIFIED</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptic digest of animal tissue		3.50				
Casein enzymichydrolysate		3.50				
Sodium chloride		5.00				
Lactose		15.50				
Bromothymol blue		0.04				
Agar		13.00				
Final pH (at 25°C) : 7.0± 0.2						
<b>Directions :</b>						
Suspend 40.54 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.						
<b>Principle :</b>						
Casein enzymichydrolysate and peptic digest of animal tissue provide essential nutrients for bacterial metabolism. Lactose provides a fermentable carbohydrate source for the enteric bacteria. Bromothymol blue is the pH indicator for indicating acid production due to carbohydrate fermentation. The dye turns yellow at acidic pH and imparts yellow colour to the colony. Alkalinization produces a blue coloration.						
<b>QC Tests - (I)Dehydrated Medium</b>						
Colour :		Cream to greenish yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Green				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 - 24hrs at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH	COLOUR OF COLONY			
Escherichia coli (25922)		Luxuriant	yellow, opaque			
Salmonella Enteritidis( 13076)		Luxuriant	bluish			
Salmonella Typhi(6539)		Luxuriant	bluish			
Staphylococcus aureus(25923)		Luxuriant	deep 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>		It is recommended for differentiation of lactose-fermenting and nonfermenting bacteria belonging to Enterobacteriaceae .				
<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>B1139</b>	40.54 g/l	12.33L	7.0± 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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.