B1139	**B.T.B. LACTOSE AGAR, MODIFIED**
Formula	
Ingredients :	**gms/lit.**
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	

Directions :

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.

Principle :

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.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to greenish yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.0 ± 0.2
	Colour (post autoclaving/heating) :	Green
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological		
	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	

Precautions :	1. For Laboratory Use.
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use :	It is recommended for differentiation of lactose-fermenting and nonfermenting bacteria belonging to Enterobacteriaceae .
Storage :	Dehydrated medium- below 30°C Prepared medium – Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1139	40.54 g/l	12.33L	7.0± 0.2	NIL	121^{0}C / 15 minutes

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