

**TECHNICAL SHEET**

<b>B656</b>	<b>LACTOSE BLUE AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		3.50			
Casein enzymic hydrolysate		3.50			
Sodium chloride		5.00			
Lactose		15.50			
Bromo thymol blue		0.04			
Agar		13.00			
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 40.54 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
<b>Principle :</b>					
Casein enzymic hydrolysate and peptic digest of animal tissue provide essential nutrients for bacterial metabolism. Lactose provides a fermentable carbohydrate source for the enteric bacteria. Bromo thymol blue is a pH indicator for indicating the acid production due to carbohydrate fermentation. It turns yellow at acidic pH and imparts yellow colour to the colony. Alkalinization produces a blue colouration. Winkle recommended addition of 0.28 g/l metachrome yellow to suppress the swarming to Proteus species.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		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 -24 hrs.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)		Good - 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>					
For differentiation of lactose fermenting and non-fermenting 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>B656</b>	40.54 g/l	12.33 lit	7.0 ± 0.2	nil	121°C/15 min

**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 BIOMARK LABORATORIES publications.

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