

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B175</b>	<b>DRIGALSKI LITMUS LACTOSE AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		7.00			
Sodium chloride		5.00			
Lactose		15.00			
Litmus		1.20			
Agar		13.00			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 41.2 gms.in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
<b>Principle :</b>					
The medium contains lactose as the source of carbon and fermentable carbohydrate. Peptic digest of animal tissue supplies essential nitrogenous nutrients to the microorganisms. Litmus is the pH indicator in the medium. Lactose fermenters produce acid and thus change the colour of litmus to red forming red, colonies. Lactose non – fermenters develop blue colonies on the 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) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Purplish blue			
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		Orange-Red	
Salmonella typhimurium (14028)		Luxuriant		Blue	
Shigella flexneri (12022)		Luxuriant		Blue	
Staphylococcus aureus (25923)		Good		Orange-Red	
Enterococcus faecalis (29212)		Fair – good		Orange-red	
<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>					
As Nonselective, differential medium for the detection of enteric pathogens.					
<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>B175</b>		41.2g/l		12.135L	
		7.4 ± 0.2		NIL	
		121°C / 15 minutes			

**Disclaimer:**

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