

<b>B231</b>	<b>LYSINE DECARBOXYLASE BROTH</b>					
<b>Formula</b>						
<b>Ingredients :</b>			<b>gms/lit.</b>			
Peptic digest of animal tissue			5.00			
Yeast extract			3.00			
Dextrose			1.00			
L-Lysine hydrochloride			5.00			
Bromo cresol purple			0.02			
Final pH (at 25°C) : 6.8 ± 0.2						
<b>Directions :</b>						
Suspend 14.02 grams in 1000 ml distilled water. Heat, if necessary, to dissolve the medium completely. Dispense 5 ml amount into screw-capped test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubed medium in an upright position and overlay with 2-3 ml of sterile mineral oil.						
<b>Principle :</b>						
Peptic digest of animal tissue and yeast extract provide essential growth nutrients. Dextrose is the fermentable carbohydrate and bromo cresol purple is the pH indicator.						
<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) :			6.8 ± 0.2			
Colour (post autoclaving/heating) :			Purple			
Clarity (post autoclaving/heating) :			Clear			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.(Inoculated tubes are overlaid with sterile mineral oil).						
MICROORGANISM (ATCC )			LYSINE DECARBOXYLASE			
Escherichia coli (25922)			Variable reaction			
Citrobacter freundii (8090)			Variable reaction			
Enterobacter aerogenes (13048)			Positive reaction, purple colour			
Klebsiella pneumoniae (13883 )			Positive reaction, purple colour			
Salmonella paratyphi A			Negative reaction, yellow colour			
Salmonella typhi ( 6539 )			Positive reaction, purple colour			
Salmonella arizonae (13314)			Positive reaction, purple colour			
Serratia marcescens (8100)			Positive reaction, purple colour			
Proteus vulgaris (13315 )			Negative reaction, yellow colour			
Proteus mirabilis (25933)			Negative reaction, yellow colour			
Shigella dysenteriae (13313 )			Negative reaction, yellow colour			
<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 differentiating Salmonella Arizonae from the Bethesda Ballerup group of 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>B231</b>		14.02 g/l	35.663 g/l	6.8 ± 0.2	NIL	121°C/15 min