

<b>B634</b>		<b>MOELLER DECARBOXYLASE BROTH WITH LYSINE HYDROCHLORIDE</b>		
<b>Formula</b>				
<b>Ingredients:</b>		<b>gms/lit.</b>		
Peptic digest of animal tissue		5.00		
Meat Extract B#		5.00		
Dextrose		0.50		
Bromo cresol purple		0.01		
Cresol red		0.005		
Pyridoxal		0.005		
L-Lysine hydrochloride		10.00		
#- Equivalent to Beef extract				
Final pH (at 25°C) : 6.0 ± 0.2				
<b>Directions :</b>				
Suspend 20.52 gms in 1000 ml. distilled water. Heat to dissolve the medium completely. Dispense in 5ml. amount in screw-capped tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes.				
<b>Principle :</b>				
This medium contains Meat Extract B and peptic digest of animal tissue which provide nitrogenous nutrients for the growth of bacteria. Dextrose is the fermentable carbohydrate and pyridoxal is the co-factor for the decarboxylase enzyme. Bromo cresol purple and cresol red are the pH indicators in this medium.				
<b>QC Tests – (I) Dehydrated Medium</b>				
	Colour :	Light to medium yellow		
	Appearance :	Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>				
	pH (post autoclaving/heating) :	6.0 ± 0.2		
	Colour (post autoclaving/heating) :	Purple		
	Clarity (post autoclaving/heating) :	Clear		
<b>(III) Q.C. Test Microbiological</b>				
	Cultural characteristics observed after upto 4 days 35 – 37°C.			
	MICROORGANISM (ATCC )	LYSINE		
	Citrobacter freundii (8090)	-		
	Enterobacter aerogenes (13048)	+		
	Escherichia coli (25922)	±		
	Klebsiella pneumoniae (13883 )	+		
	Proteus vulgaris (13315 )	-		
	Proteus mirabilis (25933)	-		
	Pseudomonas aeruginosa (9027)	-		
	Salmonella paratyphi A	-		
	Salmonella typhi ( 6539 )	+		
	Shigella flexneri (12022)	-		
	Shigella sonnei (25931)	-		
	Shigella dysenteriae (13313 )	-		
	Serratia marcescens (8100)	+		
	Key : + = positive reaction, purple colour - = negative reaction, yellow or no colour change ± = variable (+) = delayed positive reaction			

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<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>	Moeller Decarboxylase Broth Base with L-Lysine hydrochloride is used to differentiate bacteria on the basis of their ability to decarboxylate the L-Lysine hydrochloride.				
<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>B634</b>	20.52g/l	24.366L	6.0 ± 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.

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