

B1815	L-Lysine Decarboxylase Medium ISO				
Formula					
Ingredients :	gms/lit.				
ISO 6579-1 and ISO 10273:2003 Specification			B1815- L-Lysine Decarboxylase Medium ISO		
Ingredients	g / L		Ingredients	g / L	
L-Lysine mono hydrochloride	5.000		L-lysine hydrochloride	5.00	
Yeast extract	3.000		Yeast extract	3.00	
Glucose	1.000		Dextrose	1.00	
Bromocresol purple	0.015		Bromo cresol purple	0.015	
Final pH (at 25°C)	6.8±0.2		Final pH (at 25°C)	6.8±0.2	
Final pH (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 9.01 grams in 1000 ml purified / 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 to 45-50°C in an upright position and overlay with 2-3 ml of sterile mineral oil					
Principle :					
Yeast extract provide essential growth nutrients. Dextrose is the fermentable carbohydrate and Bromo cresol purple is the pH indicator. Dextrose non-utilizers will not show any change in the medium colour. During the initial stages of incubation, fermentation of dextrose by the organisms, with acid production results in a colour change of the indicator to yellow. On further incubation, if L-Lysine is decarboxylated to cadaverine, there will be an alkaline reaction and the indicator colour will then revert back to purple.					
QC Tests – (I) Dehydrated Medium					
	Colour :		Light yellow to greenish yellow		
	Appearance :		Homogeneous Free Flowing powder		
(II) Rehydrated medium					
	pH (post autoclaving/heating) :		6.8 ± 0.2		
	Colour (post autoclaving/heating) :		Purple		
	Clarity (post autoclaving/heating) :		Clear		
(III) Q.C. Test Microbiological					
	Cultural characteristics observed after 24 hours at 35 -37°C.				
	MICROORGANISM (ATCC)		LYSINE DECARBOXYLASE		
	Salmonella Typhi ATCC 6539		Positive reaction, Purple Colour		
	Salmonella Paratyphi A ATCC 9150		Positive reaction, Purple Colour		
	Salmonella Paratyphi B ATCC 8759		Positive reaction, Purple Colour		
	Salmonella Paratyphi C ATCC 1714		Positive reaction, Purple Colour		
	Yersinia enterocolitica ATCC 27729		negative reaction, yellow Colour		
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :	Use light inocula and do not read the tests under 24 hours incubation as some organisms require longer incubation time of upto 4 days.				
Use :	Recommended for distinguishing the Salmonella arizonae from the Bethesda Ballerup group of Enterobacteriaceae. The composition and performance criteria are in accordance with ISO 6579-1:2017. Also recommended by ISO 10273:2003 for Yersinia enterocolitica.				
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1815	9.01g/l	55.494g/l	6.8 ± 0.2	NIL	121 ⁰ C/15 min

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TECHNICAL SHEET

Disclaimer:

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