BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B475	**CRYSTAL VIOLET LACTOSE AGAR**

Formula

Ingredients :	**gms/lit.**
Proteose peptone	5.00
Meat extract B#	3.00
Lactose	10.00
Crystal violet	0.0033
Agar	15.00

Equivalent to Beef extract

Final pH (at 25°C) : 6.8 ± 0.2

Directions :

Suspend 33 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

Principle :

Crystal violet lactose agar was recommended for the differentiation of pure cultures of pathogenic from nonpathogenic strains of Staphylococci. Crystal violet is markedly inhibitory to Staphylococci. A fair growth can be obtained at a 1:300,000 concentration of the dye when the medium is inoculated heavily. So this medium is used for study of pure cultures where a mass inoculation can be used rather than for primary isolation. Staphylococcal colonies show different colours when cultured on Crystal violet Lactose Agar.

QC Tests – (I)Dehydrated Medium		
	Colour :	Light tan
	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 to slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after 40 - 48 hrs. at 35- 37°C.	

	MICROORGANISM (ATCC)	Growth	COLOUR OF COLONY	
	Escherichia coli (25922)	Luxuriant	Purple	
	Staphylococcus aureus (25923)	Fair – good	Light Yellow	
	Staphylococcus epidermidis (12228)	Fair – good	Purple /very slight yellow	
	Streptococcus pyogenes (19615)	None-poor	Colourless	

Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use :	For differentiation of pure cultures of pathogenic and nonpathogenic Staphylococcifrom clinical and food samples.
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.
Packing :	500 gm bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B475	33g/l	15.15L	6.8 ± 0.2	Nil	121^0C / 15 minutes

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