

**TECHNICAL SHEET**

<b>B475</b>	<b>CRYSTAL VIOLET LACTOSE AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
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					
<b>Directions :</b>					
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.					
<b>Principle :</b>					
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.					
<b>QC Tests – (I) Dehydrated Medium</b>					
	Colour :				Light tan
	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 to slightly opalescent
<b>(III) Q.C. Test Microbiological</b>					
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	
<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 differentiation of pure cultures of pathogenic and nonpathogenic Staphylococci from clinical and food samples.				
<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>B475</b>	33g/l	15.15L	6.8 ± 0.2	Nil	121°C / 15 minutes

Disclaimer:

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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 BIOMARK LABORATORIES publications.

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