

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B476</b>	<b>CRYSTAL VIOLET LACTOSE BROTH</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		5.00			
Lactose		5.00			
Dipotassium phosphate		5.00			
Monopotassium phosphate		1.00			
Crystal violet		0.00143			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 16 gms. in 1000 ml. distilled water. Distribute in 10 ml quantities in tubes with inverted Durham tubes. Sterilize by autoclaving at 15lbs pressure for 15 minutes. If the inoculum is more than 1 ml. double or multiple strength media should be used.					
<b>Principle :</b>					
Peptic digest of animal tissue provides essential nutrients for bacterial metabolism. Lactose is the fermentable carbohydrate source while the phosphates help to maintain the buffering condition in the medium. Crystal violet inhibits gram - positive bacteria which may be responsible for false positive results or mask the coliform.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Light tan			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Purple			
Clarity (post autoclaving/heating) :		Clear			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 40 - 48 hrs. at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH		COLOUR OF MEDIUM	
Escherichia coli (25922)		Good -Luxuriant		Purple	
Staphylococcus aureus (25923)		None-poor		Light yellow	
Staphylococcus epidermidis (12228)		None-poor		Purple/very slightly yellow	
Streptococcus pyogenes (19615)		Inhibited		--	
<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 detection of coliforms in water filtration control works.					
<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>B476</b>	16g/l	31.25L	7.4 ± 0.2	Nil	121 <sup>0</sup> 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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