

**BIOMARK Laboratories-INDIA**

[www.biomarklabs.com](http://www.biomarklabs.com)

**TECHNICAL SHEET**

<b>B495</b>	<b>P A BROTH</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		5.00			
Tryptose		9.83			
Beef extract		3.00			
Lactose		7.46			
Sodium chloride		2.46			
Dipotassium phosphate		1.35			
Monopotassium phosphate		1.35			
Sodium lauryl sulphate		0.05			
Bromo cresol purple		0.0085			
Final pH (at 25°C) :		6.8 ± 0.2			
<b>Directions :</b>					
Suspend 30.51 grams in 1000 ml distilled water or if desired, suspend 91.53 grams in 1000 ml distilled water to prepare a triple strength medium. Heat if necessary, to dissolve the medium completely. Dispense 50 ml volumes into screw capped tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 12 minutes.					
<b>Principle :</b>					
The medium contains peptic digest of animal tissue, tryptose, beef extract which supply nitrogenous growth factors and trace ingredients to the coliforms. Lactose serves as the carbohydrate and / or energy source for bacterial metabolism. Two phosphates provide buffering action while sodium lauryl sulphate inhibits many organisms other than coliforms. Bromo cresol purple is the pH indicator which turns yellow at acidic pH.					
<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) :	6.8 ± 0.2				
Colour (post autoclaving/heating) :	Purple				
Clarity (post autoclaving/heating) :	Clear				
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 - 24 hrs. at 35-37°C.					
MICROORGANISM (ATCC )	GROWTH	COLOUR OF MEDIUM			
Escherichia coli (25922)	Good - luxuriant	Yellow			
Enterobacter aerogenes (13048)	Good - luxuriant	Light yellow			
Klebsiella pneumoniae (13883 )	Good - luxuriant	Yellow			
Salmonella typhimurium (14028)	Good - luxuriant	-			
Enterococcus faecalis (29212)	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 the detection of presence and absence of coliform bacteria in water from plants or distribution systems.				
<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>B495</b>	30.5g/l	16.393L	6.8 ± 0.2	NIL	121°C / 15 minutes