

TECHNICAL SHEET

B471	COLIFORM PA BROTH				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		10.00			
Pancreatic digest of gelatin		5.00			
Beef extract		3.00			
Lactose		7.50			
Dipotassium phosphate		1.375			
Monopotassium phosphate		1.375			
Sodium chloride		2.50			
Sodium lauryl sulphate		0.05			
Bromo cresol purple		0.0085			
Final pH (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 92.4 gms. in 1000 ml. distilled water to prepare triple strength medium. Dispense 50 ml amounts in 250 ml screw capped milk dilution bottles. Sterilize by autoclaving at 15lbs pressure (121°C) for 12 minutes					
Principle :					
Beef extract, pancreatic digest of gelatin, casein enzymic hydrolysate provide nitrogenous growth factors and trace ingredients for bacterial growth. Lactose is the fermentable carbohydrate. Phosphates provide buffering capacity to the medium while sodium chloride maintains osmotic equilibrium. Bromo cresol purple is the pH indicator. Sodium lauryl sulphate is inhibitory to many organisms but not to coliforms. Coliform P-A broth is adaptable for screening of the sample for the presence of alternative indicator organisms.					
QC Tests – (I) Dehydrated Medium					
	Colour :	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 18 –24 hrs. at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH	GAS		
	Enterobacter aerogenes (13048)	Good - luxuriant	+		
	Escherichia coli (25922)	Good - luxuriant	+		
	Salmonella typhimurium (14028)	Good - luxuriant	-		
	Staphylococcus aureus (25923)	Inhibited	-		
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 detection of coliform bacteria in examination of pollution in treated water from water treatment plants or distribution systems.				
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
B471	92.4g/l	5.41L	6.8 ± 0.2	NIL	121°C / 12minutes

Refer disclaimer Overleaf

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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