BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B093	**PHENOL RED LACTOSE AGAR**
Formula	
Ingredients:	**gms/lit.**
Proteose peptone	10.00
Meat extract B#	1.00
Sodium chloride	5.00
Lactose	10.00
Phenol red	0.025
Agar	15.00
#Equivalent to beef extract	
Final pH (at 25°C): 7.4 ± 0.2	
Directions:	
Suspend 41.02 gms in 1000 ml distilled water. Heat with frequent agitation to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes..	
Principle:	
Proteose Peptone and Beef extract provide the carbon and nitrogen required for good growth in a wide variety of organisms. Sodium Chloride maintains the osmotic balance of the medium. Agar is the solidifying agent. Phenol Red serves as a pH indicator, turning from red – orange to yellow when acid is produced during fermentation of the carbohydrate..	

QC Tests – (I)Dehydrated Medium				
	Colour:	Light yellow to pink		
	Appearance:	Homogeneous Free Flowing powder		
(II)Rehydrated medium				
	pH (post autoclaving/heating) :	7.4 ± 0.2		
	Colour (post autoclaving/heating):	Red		
	Clarity (post autoclaving/heating):	Clear solution without any precipitate.		
(III)Q.C. Test Microbiological				
	Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours..			
	MICROORGANISM (ATCC)	GROWTH	ACID PRODUCTION	GAS
	Alcaligenes faecalis (8750)	luxuriant	negative reaction, no colour change	negative reaction
	Escherichia coli (25922)	luxuriant	Positive reaction, yellow colour	positive reaction
	Klebsiella pneumoniae (13883)	luxuriant	Positive reaction, yellow colour	positive reaction
	Proteus vulgaris (13315)	luxuriant	negative reaction, no colour change	negative reaction
	Salmonella Typhimurium (14028)	luxuriant	negative reaction, no colour change	negative reaction
	Shigella flexneri (12022)	luxuriant	negative reaction, no colour change	negative reaction

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:	Phenol Red Lactose Agar is used for studying lactose fermentation by the pure cultures of microorganisms.
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
B093	41.02 g/l	12.19 L	7.4 ± 0.2	Nil	121^0C / 15 minutes