

TECHNICAL SHEET

B1198	LACTOSE PEPTONE BROTH				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		17.00			
Papaic digest of soyabean meal		3.00			
Lactose		10.00			
Sodium chloride		5.00			
Bromocresol purple		0.02			
Final pH (at 25°C) : 7.4± 0.2					
Directions :					
Suspend 35.02 grams (single strength) or 105.06 grams (triple strength) in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes or bottles containing inverted Durhams tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
Casein enzymic hydrolysate and papaic digest of soyabean meal provide all the essential nitrogenous growth nutrients. Lactose is the fermentable sugar. Lactose fermentation and gas production form the basis for the presumptive coliform identification. Sodium chloride maintains osmotic equilibrium. Bromocresol purple is the pH indicator of the medium, which turns yellow as a result of acid production from the fermentation of lactose.					
QC Tests - (I) Dehydrated Medium					
Colour :		Cream to greenish yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Purple			
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 24-48 hours.					
MICROORGANISM (ATCC)		GROWTH	ACID PRODUCTION	GAS PRODUCTION	
Escherichia coli (25922)		Luxuriant	positive reaction, yellow colour	positive reaction	
Salmonella Typhimurium (14028)		Luxuriant	negative reaction	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 :	It is recommended for detection of coliform organisms in water				
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
B1198	35.02g/l	14.27lit	7.4 ± 0.2	Nil	121°C/15 min

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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