

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B024	FLUID LACTOSE MEDIUM				
Formula					
Ingredients :		gms/lit.			
Pancreatic digest of gelatin		5.00			
Meat Extract B #		3.00			
Lactose		5.00			
# Equivalent to Beef extract					
Final pH (at 25°C) : 6.9 ± 0.2					
Directions :					
Suspend 13 gms. in 1000 ml distilled water. Mix well and distribute into tubes with inverted Durham's tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. The concentration of medium is adjusted in accordance with sample size.					
Principle :					
Beef extract and pancreatic digest of gelatin provide essential nutrients for bacterial metabolism. Lactose is the source of fermentable carbohydrate. Growth with gas formation is a presumptive test for coliforms. Whenever there is a larger inocula, multiple strength Lactose Broth is used. The final concentration of the components is maintained at a constant level (13 g/ litre).					
QC Tests - (I) Dehydrated Medium					
Colour :		Light yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		6.9 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 -48 hrs. at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH		GAS	
Enterobacter aerogenes (13048)		Good to luxuriant		+	
Escherichia coli (25922)		Good to luxuriant		+	
Pseudomonas aeruginosa (27853)		Good to luxuriant		-	
Enterococcus faecalis (29212)		Good to luxuriant		-	
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 :					
As a pre-enrichment medium for detection of coliform bacteria in water, dairy products and foods.					
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			
B024	13g/l	38.46L	6.9 ± 0.2	NIL	121°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 BIOMARK LABORATORIES publications.

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