## **BIOMARK Laboratories-INDIA**

## www.biomarklabs.com

## **TECHNICAL SHEET**

B316	LACTOSE BROTH					
Formula						
Ingredients:		gms/lit.				
Peptic digest of animal tissue		5.00				
Beef extract		3.00				
Lactose		5.00				
Final pH (at 25°C)	: 6.9 <u>+</u> 0.2					

## **Directions:**

Suspend 13 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. For larger inocula (10 ml or more), concentrated medium may be prepared to account for medium dilution by the inoculum. Dispense in tubes containing inverted fermentation vial (Durhams tube) as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

# Principle:

Lactose Broth contains Beef Extract and Peptic digest of animal tissue as carbon and nitrogen sources for general growth requirements. Lactose is a carbohydrate source.

Examination of water, foods, ingredients and raw materials, for the presence of coliforms is one of the most common tests because of the relative ease and speed. The finding of coliforms demonstrates a failure of the process of water, food and milk. It is a valuable bacterial indicator for determining the extent of fecal contamination of surface waters or drinking water.

QC	Tests - (I)Del	hydrated Mediu	m								
	Colour:			Cream to yellow							
	Appearance :			Homogeneous Free Flowing powder							
(II)Rehydrated medium											
	pH (post autoclaving/heating):			$6.9 \pm 0.2$							
	Colour (post au	Light to medium amber									
	Clarity (post au	Clear									
(III)Q.C. Test Microbiological											
			3- 48 hrs at 35-37°C.								
	MICROORGANISM (ATCC )			ROWTH	GAS						
	Enterobacter aerogenes (13048)			xuriant	+						
	Escherichia coli (25922)			xuriant	+						
	11111		3) Lu	xuriant	-						
	Enterococcus faecalis (29212)		Lu	kuriant -							
	Pseudomonas aeruginosa (9027) Lu			xuriant	-						
		Escherichia coli (8739)			+						
		Escherichia coli NTCC (9002)		xuriant	+						
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									
				grow or grow poorly on this medium.							
		For the detection of coliform bacteria in water, foods, dairy products as per									
Standard Methods.  Storage: Dehydrated medium- be			1 200C B			D	000				
	rage :	elow 30°C P	repared	medium	– Between 2 to	5 8°C.					
Packing: 500 gm. bottle					1	(2500)		G: ::: ::			
Product profile:		Reconstitution	Quanti Prepar	ity on ation (500g		(25°C)	Supplement	Sterilization			
B316		13 g/l	38.46	lit	6.9	± 0.2	Nil	121ºC/15 min			