

**TECHNICAL SHEET**

<b>B1483</b>	<b>Phenol Red Lactose Broth</b>			
<b>Formula</b>				
<b>Ingredients :</b>		<b>gms/lit.</b>		
Peptic digest of animal tissue		10.00		
Sodium chloride		5.00		
Lactose		10.00		
Phenol red		0.018		
Final pH (at 25°C) : 7.5 ± 0.2				
<b>Directions :</b>				
Suspend 25.02 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes with inverted Durhams tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.				
<b>Principle :</b>				
Peptic digest of animal tissue provides nitrogenous compounds and other essential growth nutrients. Phenol red is the pH indicator, which turns yellow in acidic condition.				
<b>QC Tests - (I) Dehydrated Medium</b>				
Colour :		Light yellow to pink		
Appearance :		Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>				
pH (post autoclaving/heating) :		7.5 ± 0.2		
Colour (post autoclaving/heating) :		Red		
Clarity (post autoclaving/heating) :		Clear		
<b>(III) Q.C. Test Microbiological</b>				
Cultural characteristics observed after 18 - 24 hrs. at 35 -37°C.				
MICROORGANISM (ATCC )		GROWTH	ACID	GAS
Citrobacter freundii (8090)		Luxuriant	+	+
Enterobacter aerogenes (13048)		Luxuriant	+	+
Escherichia coli (25922)		Luxuriant	+	+
Klebsiella pneumoniae (13883)		Luxuriant	+	+
Proteus vulgaris (13315)		Luxuriant	-	-
Salmonella typhimurium (14028)		Luxuriant	-	-
Salmonella typhi (6539)		Luxuriant	-	-
Serratia marcescens (8100)		Luxuriant	-	-
Shigella flexneri (12022)		Luxuriant	-	-
Key : - = negative reaction, no colour change or red. + = positive reaction, yellow colour				
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. The addition of some carbohydrates to the basal medium may cause an acid reaction. To restore the original pH (and colour of the medium), add 0.1 N sodium hydroxide on a drop - by - drop basis. Take care not to make the medium too alkaline, which would prevent fermentation from occurring within the usual incubation period. 3. To ensure accuracy of interpretation, uninoculated control tubes and/or inoculated Phenol Red Broth Base control tubes should be run in parallel with the fermentation tests.		
<b>Use :</b>		For Lactose fermentation studies of microorganisms. Recommended by International Organization for Standardization, 1990, Draft ISO/DIS 9308-1.		

Refer disclaimer Overleaf

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<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1484</b>	25.02 g/l	19.98 L	7.5 ± 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 BIOMARKLABORATORIES publications.

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