

TECHNICAL SHEET

B289	Phenol Red Lactose Broth					
Formula						
Ingredients :			gms/lit.			
Protease peptone			10.00			
Meat extract B #			1.00			
Sodium chloride			5.00			
Phenol red			0.018			
Lactose			5.00			
Final pH (at 25°C) : 7.4 ± 0.2						
Directions :						
Suspend 21 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.						
Principle :						
Peptic digest of animal tissue serve as sources for carbon and nitrogen. Sodium chloride is the osmotic stabilizer. Phenol red is the pH indicator, which turns yellow at acidic pH i.e. on fermentation of lactose. Gas formation is seen in Durham's tubes.						
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				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours (longer if necessary).						
MICROORGANISM (ATCC)		GROWTH	ACID	GAS		
Enterobacter aerogenes (13048)		Luxuriant	+	+		
Escherichia coli (25922)		Luxuriant	+	+		
Klebsiella pneumoniae (13883)		Luxuriant	+	+		
Proteus vulgaris (13315)		Luxuriant	-	-		
Salmonella typhimurium (14028)		Luxuriant	-	-		
Shigella flexneri (12022)		Luxuriant	-	-		
Key : - = negative reaction, no colour change or red. + = positive reaction, yellow colour						
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. 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.				
Use :		For Lactose fermentation studies 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
B289		21 g/l	23.809 L	7.4 ± 0.2	Nil	121°C / 15 minutes

Refer disclaimer Overleaf

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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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