

**TECHNICAL SHEET**

<b>B284</b>	<b>Phenol red broth base</b>				
<b>Formula</b>					
<b>Ingredients :</b>			<b>gms/lit.</b>		
Proteose peptone			10.00		
Meat Extract B#			1.00		
Sodium chloride			5.00		
Phenol red			0.018		
#- Equivalent to Beef extract					
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 16.02 grams in 1000 ml purified/distilled water, mix well. Heat if necessary, to ensure complete solution. Distribute in fermentation tubes (tubes containing inverted Durham's tubes). Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Aseptically add filter sterilized or autoclave sterilized carbohydrate solution to sterile basal medium.					
<b>Principle :</b>					
Proteose Peptone and Meat Extract B provide the carbon and nitrogen sources required for good growth of a wide variety of organisms. Sodium Chloride maintains the osmotic balance of the medium. Phenol Red serves as an indicator, turning from red – orange to yellow when acid is produced during fermentation of the added carbohydrate. Gas formation is seen in Durham's tubes.					
<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) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Red			
Clarity (post autoclaving/heating) :		Clear			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours. ( longer if necessary)					
MICROORGANISM (ATCC)	GROWTH	ACID (without carbohydrate)	GAS (without carbohydrate)	ACID (with dextrose)	GAS (with dextrose)
Citrobacter freundii (8090)	Luxuriant	-	-	+ (Yellow)	+
Enterobacter aerogenes (13048)	Luxuriant	-	-	+ (Yellow)	+
Escherichia coli (25922)	Luxuriant	-	-	+ (Yellow)	+
Klebsiella pneumoniae (13883)	Luxuriant	-	-	+ (Yellow)	+
Proteus vulgaris (13315)	Luxuriant	-	-	+ (Yellow)	+
Salmonella typhimurium (14028)	Luxuriant	-	-	+ (Yellow)	+
Salmonella typhi (6539)	Luxuriant	-	-	+ (Yellow)	+
Serratia marcescens (8100)	Luxuriant	-	-	+ (Yellow)	+
Shigella flexneri (12022)	Luxuriant	-	-	+ (Yellow)	-
Key : Acid - = negative reaction, no colour change or red.					
<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.			

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	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>	As a basal medium to which carbohydrates are added for determination of fermentation reactions of pure cultures of microorganisms.				
<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>B284</b>	16.02 g/l	31.210 L	7.4 ± 0.2	Desired carbohydrate	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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