

B674	PHENOL RED BROTH BASE W/ MEAT EXTRACT					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		10.00				
Meat extract		1.00				
Sodium chloride		5.00				
Phenol red		0.018				
Final pH (at 25°C) : 7.4 ± 0.2						
Directions :						
Suspend 16.02 grams in 1000 ml distilled water. Add the test carbohydrate in desired quantity. Heat if necessary to dissolve the medium completely. Mix well and dispense in tubes containing inverted Durhams tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. :For critical studies, it is recommended to use filter sterilized carbohydrate which is to be incorporated aseptically in the sterile medium base, if desired.						
Principle :						
Casein enzymic hydrolysate and meat extract provide nitrogenous nutrients to the organisms. Phenol red is the pH indicator which turns yellow at acidic pH. Sodium Chloride maintains osmotic equilibrium.						
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 18 - 24 hrs.at 35 -37°C.						
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.						
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. 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.				
Use :		It is used to study fermentation of carbohydrates				
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
B674		16.00 g/l	31.25 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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