

B092	PHENOL RED ADONITOL BROTH				
Formula					
Ingredients:			gms/lit.		
Proteose peptone			10.00		
Meat extract B#			1.00		
Sodium chloride			5.00		
Adonitol			5.00		
Phenol red			0.018		
#Equivalent to beef extract					
Final pH (at 25°C): 7.4 ± 0.2					
Directions:					
Suspend 21.02 grams in 1000 ml distilled water and 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.					
Principle:					
Proteose peptone and meat extract B 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 adonitol. Gas formation is seen in Durhams tubes. All of the Enterobacteriaceae grow well in this medium. In addition to producing a pH colour shift, the production of mixed acids, notably butyric acids, often results in a pungent, foul odour from the culture medium.					
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 solution without any precipitate.		
(III)Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours..					
MICROORGANISM (ATCC)		GROWTH	ACID PRODUCTION	GAS	
Citrobacter freundii (8090)		luxuriant	negative reaction, no colour change	negative reaction	
Escherichia coli (25922)		luxuriant	negative reaction, no colour change	negative reaction	
Enterobacter aerogenes (13048)		luxuriant	Positive reaction, yellow colour	positive reaction	
Klebsiella pneumoniae (13883)		luxuriant	Positive reaction, yellow colour	positive reaction	
Proteus vulgaris (13315)		luxuriant	negative reaction, no colour change	negative reaction	
Serratia marcescens (8100)		luxuriant	negative reaction, no colour change	negative reaction	
Salmonella Typhi (6539)		luxuriant	negative reaction, no colour change	negative reaction	
Salmonella Typhimurium (14028)		luxuriant	negative reaction, no colour change	negative reaction	
Shigella flexneri (12022)		luxuriant	negative reaction, no colour change	negative reaction	
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.			
Use:		Phenol Red Adonitol Broth is used for detection of adonitol fermenting bacteria..			
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
B092		21.02 g/l	23.79 L	7.4 ± 0.2	Nil
					121°C / 15 minutes

Refer disclaimer Overleaf

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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