

TECHNICAL SHEET

B684	PHENYLALANINE MALONATE BROTH (Shaw & Clarke Medium)				
Formula					
Ingredients :		gms/lit.			
Yeast extract		1.00			
Sodium malonate		3.00			
DL-phenylalanine		2.00			
Ammonium sulphate		2.00			
Dipotassium phosphate		0.60			
Monopotassium phosphate		0.40			
Sodium chloride		2.00			
Bromo thymol blue		0.025			
Final pH (at 25°C) : 6.3 ± 0.2					
Directions :					
Suspend 11 gms.in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 10 lbs pressure (115°C) for 10 minutes.					
Principle :					
Yeast extract supplies nutrients to the organisms while two phosphates buffer the medium. Bromo thymol blue is the pH indicator. Sodium chloride maintains osmotic balance.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Light green			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	6.3 ± 0.2			
	Colour (post autoclaving/heating) :	Yellowish green			
	Clarity (post autoclaving/heating) :	Clear			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after 18 - 24 hrs at 35-37°C.				
	MICROORGANISM (ATCC)	GROWTH	MALONATE	PHENYLALANINE	
	Escherichia coli (25922)	Luxuriant	-	-	
	Klebsiella pneumoniae (13883)	Luxuriant	+	-	
	Proteus mirabilis (25933)	Luxuriant	-	+	
	Providencia alcalifaciens (9886)	Luxuriant	-	+	
	Salmonella typhimurium (14028)	Luxuriant	-	-	
	Salmonella arizonae (13314)	Luxuriant	+	-	
	Key : Malonate + = dark blue colour of medium Phenylalanine + = dark green colour of medium				
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 :		For the differentiation of green – negative enteric bacteria on the basis of their ability to utilize malonate and produce pyruvic acid from phenylalanine.			
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
B684		11g/l	45.454L	6.3 ± 0.2	NIL
					115°C / 10 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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