

**TECHNICAL SHEET**

<b>B685</b>	<b>PHENYLETHYL BLOOD AGAR BASE (ANAEROBIC)</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein enzymic hydrolysate		15.00			
Papaic digest of soyabean meal		5.00			
Yeast extract		5.00			
Sodium chloride		5.00			
Phenylethyl alcohol		2.50			
L-cystine		0.40			
Vitamin K1		0.01			
Hemin		0.005			
Agar		20.00			
Final pH (at 25°C) : 7.5 ± 0.2					
<b>Directions :</b>					
Suspend 52.92 gms. in 950ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Aseptically add sterile 50 ml. defibrinated sheep or rabbit blood. Mix well and pour into sterile petri plates.					
<b>Principle :</b>					
Casein enzymic hydrolysate and papaic digest of soyabean meal and yeast extract provide nitrogen, carbon, sulphur and trace nutrients. Sodium chloride maintains osmotic equilibrium. Addition of Hemin, Vitamin K1 and L-Cystine makes the medium more nutritious and suitable for the growth of fastidious anaerobic bacteria. Phenylethyl alcohol inhibits the growth of gram- negative bacteria particularly Proteus species in the specimens consisting of mixed bacterial population. It has a bacteriostatic action against gram - negative bacteria as it inhibits DNA synthesis.					
<b>QC Tests - (I) Dehydrated Medium</b>					
	Colour :	Yellow			
	Appearance :	Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
	pH (post autoclaving/heating) :	7.5 ± 0.2			
	Colour (post autoclaving/heating) :	a) Basal Medium : Yellow b) With addition of 5% v/v blood. : Cherry red			
	Clarity (post autoclaving/heating) :	a) Clear to slightly opalescent b) Opaque			
<b>(III) Q.C. Test Microbiological</b>					
	Cultural characteristics observed after 48- 72 hrs. (Longer if necessary) at 35-37°C, in an anaerobic condition.				
	MICROORGANISM (ATCC )	GROWTH			
	Bacteroides fragilis (25285 )	Good - luxuriant			
	Clostridium perfringens (13124)	Good - luxuriant			
	Clostridium butyricum (9690 )	Good - luxuriant			
	Clostridium sporogenes (11437)	Good - luxuriant			
	Proteus mirabilis (25933)	Fair - good			
	Staphylococcus aureus (25923)	None - poor			
<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.				
<b>Use :</b>	For selective isolation and cultivation of fastidious anaerobic bacteria.				
<b>Storage :</b>	Dehydrated medium and 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>B685</b>	52.92g/l	9.448L	7.5 ± 0.2	defibrinated sheep or rabbit blood	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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