

TECHNICAL SHEET

B725	SODIUM AZIDE CRYSTAL VIOLET BLOOD AGAR BASE				
Formula					
Ingredients :		gms/lit.			
Beef heart,infusion from		500.00			
Casein enzymic hydrolysate		20.00			
Sodium chloride		5.00			
Glucose		0.20			
Sodium azide		0.30			
Crystal violet		0.002			
Agar		15.00			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 50.5 gms. in 950ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 5% v/v sterile defibrinated blood. Mix well and pour into sterile petri plates.					
Principle :					
Beef heart infusion and casein enzymic hydrolysate provide the necessary nitrogenous compounds and other essential nutrients to the organisms. Glucose is the fermentable carbohydrate source in the medium but is weakly fermented by Erysipelothrix rhusiopathiae without the gas production. Crystal violet and sodium azide inhibit most of the gram – positive and gram – negative bacteria respectively. Blood provides the growth factors and also aid to detect the haemolytic reaction if any. Sodium chloride maintains the osmotic balance of the medium.					
QC Tests – (I)Dehydrated Medium					
Colour :		Light purple			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		a) Basal medium : Purple b) With addition of blood : Reddish purple			
Clarity (post autoclaving/heating) :		a) Clear to slightly opalescent b) Opaque			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 18 -24 hrs at 35 - 37°C with 5-10% CO2 or after 48 hrs. at 35°C, in an anaerobic atmosphere.					
MICROORGANISM (ATCC)		GROWTH			
Erysipelothrix rhusiopathiae (19414)		Good – luxuriant			
Streptococcus pneumoniae (6303)		Good – luxuriant			
Escherichia coli (25922)		Inhibited			
Proteus mirabilis (25933)		Inhibited			
Staphylococcus aureus (25923)		Inhibited			
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 selective cultivation of Eysipelothrix rhusiopathiae.					
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
B725	50.5g/l	9.900L	7.0 ± 0.2	5% v/v sterile defibrinated 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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