

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1462</b>	<b>TSC AGAR BASE</b>					
<b>Formula</b>						
<b>Ingredients :</b>			<b>gms/lit.</b>			
Tryptose			15.00			
Soya peptone			5.00			
Yeast extract			5.00			
Sodium metabisulphite			1.00			
FerricAmmonium citrate			1.00			
Agar			15.00			
Final pH (at 25°C) : 7.6± 0.1						
<b>Directions :</b>						
Suspend 21 grams in 500 ml 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 add rehydrated contents of one vial of TSC Supplement (BF091).						
<b>Principle :</b>						
Tryptose, soya peptone, yeast extract, provide nitrogenous and carbonaceous compounds, long chain amino acids, vitamin B complex and trace elements essential for clostridial growth. Sodium metabisulphite and ferric ammonium citrate act as an indicator of sulphite reduction, indicated by black coloured colonies. D-cycloserine (BF091) help in the selective isolation of C.perfringens by inhibiting accompanying flora.						
<b>QC Tests - (I)Dehydrated Medium</b>						
Colour :		Light Yellow to light brown				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.6 ± 0.1				
Colour (post autoclaving/heating) :		Medium amber				
Clarity (post autoclaving/heating) :		Slightly opalescent				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed under anaerobic condition with added TSC Supplement (BF091) after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC )		GROWTH		COLOUR OF COLONY		
Clostridium perfringens (12924)		Luxuriant		Black		
Clostridium sporogenes(19404)		Luxuriant		Black		
Clostridium sordellii (9714)		Inhibited		-		
Escherichia coli (25922)		Inhibited		-		
Staphylococcus aureus (25923)		Inhibited		-		
<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 enumeration of Clostridium perfringens in foodstuffs as per the specifications laid down in ISO 7937:1985.				
<b>Storage :</b>		Dehydrated medium- below 30 ° C Prepared mediums- 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>B1462</b>	42g/l	11.90 L	7.6 ± 0.1	T.S.C.Supplement (BF091)	121°C /15 min.	