

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B282</b>	<b>PERFRINGENS AGAR BASE (T. S. C. /S. F. P. Agar Base)</b>					
<b>Formula</b>						
<b>Ingredients :</b>			<b>gms/lit.</b>			
Tryptose			15.00			
Papaic digest of soyabean meal			5.00			
Beef extract			5.00			
Yeast extract			5.00			
Sodium metabisulphite			1.00			
Ferric ammonium citrate			1.00			
Agar			15.00			
Final pH (at 25°C) : 7.6 ± 0.2						
<b>Directions :</b>						
Suspend 23.5 grams in 475 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50°C. Add 25 ml. of Egg Yolk emulsion (BF003) and rehydrated contents of 1 vial of S.F.P. supplement (BF090) / T.S.C supplement (BF091). Mix well and pour into sterile petri plates.						
<b>Principle :</b>						
Tryptose, papaic digest of soyabean meal, yeast extract, beef extract provide nitrogenous compounds, carbon, sulphur, vitamin B complex and trace elements essential for clostridial growth. Sodium metabisulphite and ferric ammonium citrate act as indicators of sulphite reduction, indicated by black coloured colonies. Agar is the solidifying agent.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :			Beige to yellow			
Appearance :			Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :			7.6 ± 0.2			
Colour (post autoclaving/heating) :			a) Basal medium : Amber b) After Addition of Egg Yolk Emulsion (BF003) : Yellow			
Clarity (post autoclaving/heating) :			a) Slightly opalescent b) Slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed under anaerobic condition with added TSC Supplement (BF091)/S.F.P Supplement (BF090) and Egg Yolk Emulsion (BF003), after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC)		GROWTH	SULPHITE REDUCTION	LECITHINASE		
Clostridium perfringens (12924)		luxuriant	+	Positive reaction, opaque zone around the colony		
Clostridium sordelli (9714)		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 the presumptive identification and enumeration of Clostridium perfringens after addition of selective supplements.				
<b>Storage :</b>		Dehydrated medium- below 30°C 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>B282</b>		47g/l	10.638L	7.6 ± 0.2	Egg Yolk emulsion (BF003) and S.F.P. supplement (BF090) / T.S.C supplement (BF091)	121°C / 15 minutes