

**TECHNICAL SHEET**

<b>B1496</b>	<b>PERFRINGENS AGAR BASE (T.S.C.)</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				
Ferric ammonium citrate		1.00				
Agar		15.00				
Final pH (at 25°C) : 7.6 ± 0.2						
<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 brownish yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.6 ± 0.2				
Colour (post autoclaving/heating) :		Amber				
Clarity (post autoclaving/heating) :		clear to 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	SULPHITE REDUCTION			
Clostridium perfringens (12924)		luxuriant	positive, blackening of medium			
Clostridium sordellii A (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>		It is recommended for the enumeration of Clostridium perfringens from food. The composition and performance criteria of this medium are as per the specifications laid down in ISO 7937:1985				
<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>B1496</b>	42.0 g/l		11.90 L	7.6 ± 0.2	TSC Supplement (BF091)	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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