

**TECHNICAL SHEET**

<b>B371</b>	<b>SPS AGAR,MODIFIED</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein enzymic hydrolysate		15.00			
Yeast extract		10.00			
Ferric citrate		0.50			
Sodium sulphite		0.50			
Sodium thioglycollate		0.10			
Polysorbate 80		0.05			
Sulphadiazine		0.12			
Polymixin B sulphate		0.01			
Agar		15.00			
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 41.28 gms.in 1000ml. 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 pour in sterile petri plates containing inoculum. Allow to solidify and if desired, pour the cover layer using about 5 ml. sterile medium. Incubate anaerobically.					
<b>Principle :</b>					
Casein enzymic hydrolysate and yeast extract supplies nitrogenous compounds, vitamin B complex and other essential growth nutrients to the growing Clostridium perfringens. This organism reduces sulphite to sulphide which reacts with iron of ferric citrate to form a black precipitate of iron sulphide and hence the colonies are black. Polysorbate 80 monooleate supplies fatty acids for the organisms. Polymyxin and Sulphadiazine inhibit a wide variety of gram – positive and gram – negative bacteria. Few organisms found in food other than Clostridium perfringens also form black colonies on this medium. Some strains of Clostridium perfringens fail to grow on this medium.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Medium amber			
Clarity (post autoclaving/heating) :		Slightly opalescent			
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 -48 hrs at 35-37 °C when incubated anaerobically.					
MICROORGANISM (ATCC )		GROWTH		COLOUR OF COLONY	
Clostridium perfringens (12924)		Good – luxuriant		Black	
Clostridium sporogenes (11437)		Poot to good		Black	
Staphylococcus aureus (25923)		Poor to good		White	
Escherichia coli (25922)		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 from foodstuffs.				
<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>B371</b>	41.28g/l	12.112L	7.0 ± 0.2	NIL	121°C / 15 minutes

Refer disclaimer Overleaf

**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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