

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B327</b>	<b>SULPHITE AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein enzymic hydrolysate		10.00				
Sodium sulphite		1.00				
Agar		20.00				
Final pH (at 25°C) : 7.6 ± 0.2						
<b>Directions :</b>						
Suspend 31 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense in screw capped tubes containing a clean iron nail in 15 ml. amounts and cap the tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. As an alternate to iron nail, 10 ml. of 5% ferric citrate solution may be used per litre of the medium.						
<b>Principle :</b>						
Sulphite agar contains Tryptone as a source of carbon, nitrogen, vitamins and minerals. Sodium sulphite, upon reduction, produces hydrogen sulfide. Agar is the solidifying agent. Iron nails or iron strips will combine with any dissolved oxygen in the medium provide an anaerobic environment.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Cream yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.6 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 - 48 hrs. at 55°C.						
MICROORGANISM (ATCC)		GROWTH	SULPHITE REDUCTION			
Clostridium thermosaccharolyticum (7956)		Good	+			
Desulfotomaculum nigrificans (19858)		Good	+			
Bacillus stearothermophilus (10149)		Good	-			
Key : + = positive reaction, blacking of medium. - = negative reaction, no blacking of medium.						
<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 detection of thermophilic sulphide producing anaerobic microorganisms.				
<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>B327</b>		31g/l	16.129L	7.6 ± 0.2	NIL	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 BIOMARK LABORATORIES publications.

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