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	1147 BISMUTH SULPHITE AGAR								
Formula									
Ingredients:	gms/lit	t.							
Peptic digest of animal tissue	5.00								
5	5.00								
Meat Extract B#	5.00								
Dextrose	5.00								
Disodium phosphate	4.00								
Ferrous Sulphate	0.30								
	8.00								
	0.025								
Agar #- Equivalent to Beef extract	20.00								
Final pH (at 25°C): 7.6 <u>+</u> 0.2									
Directions:									
	ourified/ dis	tilled water	Heat to boiling to dissolve the medium						
completely. DO NOT OVERHEAT OR STERILIZE IN AUTOCLAVE or by fractional sterilization since overheating may destroy the selectivity of the medium. Transfer to a water bath maintained at about 50°C. The									
			rsion of precipitated bismuth sulphite in the						
final gel, which should be dispersed before pouring into the sterile Petri plates.									
Principle:									
In Bismuth Sulfite Agar, Meat Extract	Band Pepti	c digest of a	nimal tissue provide nitrogen, vitamins and						
			s a buffering agent. Bismuth sulfite indicator						
and brilliant green are complementary	y in inhibitir	ng gram-pos	itive bacteria and members of the coliform						
			sulfate is for H_2S production. When H_2S is						
		present, the iron in the formula is precipitated, giving positive cultures the characteristic brown to black							
colour with metallic sheen. Agar is a solidifying agent.									
	olidifying age	ent.							
QC Tests – (I)Dehydrated Medium	blidifying age								
QC Tests – (I)Dehydrated Medium Colour:	blidifying age	Light yellow	to greenish yellow						
QC Tests – (I)Dehydrated Medium Colour: Appearance:	blidifying age	Light yellow							
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Refer disclaimer Overleaf

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Precautions :	1 For Laboratory Uso							
Frecautions :	1. For Laboratory Use.							
	2. Follow proper, established laboratory procedures in handling and disposing of							
	infectious materials.							
	3. HARMFUL. May cause sensitization by inhalation. Irritating to eyes, respiratory							
	system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable							
	protective clothing. Keep container tightly closed.							
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be							
	 encountered that fail to grow or grow poorly on this medium. 2. It is important to streak for well isolated colonies. In heavy growth areas, S. typhi appears light green and may be misinterpreted as negative growth for S. typhi. 3. S. typhi and S. arizonae are the only enteric organisms to exhibit typical brown zones 							
	on the medium. Brown zones are not produced by other members of the							
	 Enterobacteriaceae. However, S. arizonae is usually inhibited. 4. Colonies on Bismuth Sulfite Agar may be contaminated with other viable organisms; therefore, isolated colonies should be subcultured to a less selective medium (e.g. Mac Conkey Agar). 5. Typical S. typhi colonies usually develop within 24 hours ; however, all plates should be incubated for a total of 48 hours to allow growth of all typhoid strains. 							
		a period longer th	han necessary to just					
	dissolve the ingredients destroys its selectively.							
Use :	It is used for the selective isolation of Salmonellae from faeces, urine, sewage and other							
	materials in accordance with United States Pharmacopoeia.							
Storage :	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C. but not for more							
	than two days as after which dye oxidizes to give green medium that could be inhibitory							
	to some Salmonellae.							
Packing :	500 gm. bottle							
Product profile:	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization			
		Preparation (500g)						
B1147	52.32g/l	9.556L	7.6 <u>+</u> 0.2	NIL	DO NOT STERILIZE			
					IN AUTOCLAVE			

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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