

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B669	M-BISMUTH SULPHITE BROTH				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue		20.00			
Meat extract B#		10.00			
Dextrose		10.00			
Disodium phosphate		8.00			
Ferrous sulphate		0.60			
Bismuth sulphite indicator		16.00			
Brilliant green		0.05			
		#- Equivalent to Beef extract			
Final pH (at 25°C) : 7.7 ± 0.2					
Directions :					
Suspend 64.65 gms. in 1000ml distilled water. Boil to dissolve the medium completely. Excessive heating destroys the selective properties of the medium. DO NOT AUTOCLAVE. The medium usually contains flocculent precipitate which should be dispersed evenly by swirling the flask just before use. Use 2ml of the medium per pad.					
Principle :					
Peptic digest of animal tissue, beef extract and dextrose provides essential growth nutrients. Ferrous sulphate and bismuth sulphite indicator together act as H ₂ S indicators. Brilliant green acts as selective agent. Luxuriant growth of Salmonella typhi is obtained after 30 hours incubation at 35°C but metallic sheen and brown – black halo is not developed before 40 hours.					
QC Tests – (I) Dehydrated Medium					
Colour :		Greenish yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.7 ± 0.2			
Colour (post autoclaving/heating) :		Greenish yellow			
Clarity (post autoclaving/heating) :		Opaque			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 40-48 hrs.at 35-37°C, in humid atmosphere.					
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY	
Salmonella typhi (6539)		Luxuriant		Black with sheen	
Salmonella typhimurium (14028)		Luxuriant		Black with sheen	
Escherichia coli (25922)		Inhibited		-	
Staphylococcus aureus (25923)		Inhibited		-	
Precautions :					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
Limitations :					
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.					
Use :					
For the detection of Salmonellae by the membrane filter technique.					
Storage :					
Dehydrated medium- below 30°C Prepared medium- Freshly prepared.					
Packing :					
500 gm bottle					
Product profile:		Reconstitution		Quantity on Preparation (500g)	
		pH (25°C)		Supplement	
		Sterilization			
B669	64.65g/l	7.73L	7.7 ± 0.2	NIL	DO NOT 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 BIOMARK LABORATORIES publications.

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