

TECHNICAL SHEET

B1297	BRILLIANT GREEN AGAR, MODIFIED				
Formula					
Ingredients :		gms/lit.			
Proteose peptone		10.00			
Yeast extract		3.00			
Lactose		10.00			
Sucrose		10.00			
Sodium chloride		5.00			
Phenol red		0.08			
Brilliant green		0.0125			
Agar		20.00			
Final pH (at 25°C) : 6.9 ± 0.2					
Directions :					
Suspend 29.045 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. AVOID OVERHEATING. For more selectivity, aseptically add rehydrated contents of 1 vial of Sulpha Supplement (BF020). Mix well before pouring into sterile Petri plates.					
Principle :					
The medium contains proteose peptone and yeast extract as sources of carbon, nitrogen, vitamins, amino acids and essential nutrients. The two sugars namely lactose and sucrose serve as energy sources. Fermentation of lactose and/or sucrose in the medium results in the formation of acidic pH which is detected by phenol red indicator. Sodium chloride maintains the osmotic equilibrium. Brilliant green helps to inhibit the contaminating microflora.					
QC Tests - (I) Dehydrated Medium					
	Colour :	Light yellow to light pink			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	6.9 ± 0.2			
	Colour (post autoclaving/heating) :	Greenish brown			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
	Cultural response was carried out after an incubation at 30-35°C for 24-48 hours.				
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Salmonella typhimurium (14028)	Good-Luxuriant	Pinkish white		
	Salmonella abony (NCTC 6017)	Good-Luxuriant	Pinkish white		
	Salmonella enteritidis (13076)	Luxuriant	Pinkish white		
	Salmonella typhi (6539)	fair-good	Reddish pink		
	Escherichia coli (25922)	None-poor	Yellowish green		
	Escherichia coli (8739)	None-poor	Yellowish green		
	Escherichia coli (NCTC9002)	None-poor	Yellowish green		
	Staphylococcus aureus (25923)	Inhibited	--		
	Staphylococcus aureus (6538)	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 selective isolation of Salmonellae other than Salmonella typhi from faeces, foods, dairy products, etc.				
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1297	58.09g/l	8.607 L	6.9 ± 0.2	Sulpha supplement (BF020)	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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