

TECHNICAL SHEET

B123	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 58 gms in 1000 ml. distilled water. Boil 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 content of 2 vials of Sulpha supplement. Mix well before pouring into sterile petri plates.						
Principle :						
Brilliant Green Agar Modified contains Yeast Extract and Proteose Peptone as sources of carbon, nitrogen, vitamins and minerals. Yeast Extract supplies B-complex vitamins which stimulate bacterial growth, Lactose and Sucrose are carbohydrate sources. In the presence of Phenol Red, a pH indicator, nonlactose and / or nonsucrose – fermenting Salmonella will produce red colonies. Brilliant Green inhibits gram positive organisms and many gram negative bacteria, except Salmonella. Agar is a solidifying agent..						
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. Recovery rate is considered as 100% for bacteria growth on Soyabean Casein Digest Agar.						
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY			
	Salmonella typhimurium (14028)	good-luxuriant	Pinkish white			
	Salmonella enteritidis (13076)	Luxuriant	Pinkish white			
	Salmonella Abony (NCTC6017)	good-luxuriant	Pinkish white			
	Salmonella typhi (6539)	Poor – 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. 2. Due to the nutritional requirements and inhibitory characteristics of the organisms themselves, organisms other than Salmonella spp., such as Morganella morgani and some Enterobacteriaceae may grow on the medium. 3. Confirmatory tests, such as fermentation reactions and seroagglutination, should be carried out on all presumptive Salmonella spp.				
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
B123		58g/l	8.62L	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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.