

B1150	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 58.09 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 Sulpha supplement (BF020). 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, non-lactose and / or non-sucrose – 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 characteristics observed after 18 -24 hrs at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Salmonella typhimurium (14028)		Good-luxuriant		Pinkish white		
Salmonella enteritidis (13076)		Luxuriant		Pinkish white		
Salmonella typhi (6539)		Poor – good		Reddish pink		
Salmonella Abony (NCTC 6017)		Good-luxuriant		Pinkish white		
Escherichia coli (25922)		None-poor		Yellowish green		
Escherichia coli (8739)		None-poor		Yellowish green		
Escherichia coli (NCTC 9002)		None-poor		Yellowish green		
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. 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
B1150		58.09g/l	8.607L	6.9 ± 0.2	Sulpha supplement (BF020)	121°C / 15 minutes