

<b>B114</b>	<b>B.G. SULPHA AGAR (BRILLIANT GREEN SULPHA AGAR)</b>		
<b>Formula</b>			
<b>Ingredients :</b>	<b>gms/lit.</b>		
Yeast extract	3.00		
Proteose peptone	10.00		
Lactose	10.00		
Sucrose	10.00		
Sodium sulphapyridine	1.00		
Sodium chloride	5.00		
Brilliant green	0.0125		
Phenol red	0.08		
Agar	20.00		
Final pH (at 25°C) : 6.9 ± 0.2			
<b>Directions :</b>			
Suspend 59.09 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. To maintain selectivity of the medium, DO NOT OVER STERILIZE OR OVERHEAT the medium.			
<b>Principle :</b>			
Proteose peptone and yeast extract provide essential growth nutrients. Brilliant green used in the medium is inhibitory to gram – positive and most gram – negative lactose / sucrose fermenter bacilli. Shigella species grow poorly or not at all. Presence of sulphapyridine in Brilliant Green Agar enhances the selectivity of medium. This medium is not suitable for the isolation of Salmonella typhi or Shigella species, however some strains may grow forming red colonies.			
<b>QC Tests – (I) Dehydrated Medium</b>			
Colour :	Light yellow to Light pink		
Appearance :	Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>			
pH (post autoclaving/heating) :	6.9 ± 0.2		
Colour (post autoclaving/heating) :	Greenish brown		
Clarity (post autoclaving/heating) :	Clear to slightly opalescent		
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after 24 – 48 hrs at 35-37°C.			
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONY	
Salmonella typhimurium (14028)	Good	Pink – white	
Salmonella enteritidis (13076 )	Good	Pink – white, surrounded by brilliant red zone	
Escherichia coli (25922)	None – poor	Yellow green surrounded by intense yellow – green zone	
Enterococcus faecalis (29212)	Inhibited	-	
Staphylococcus aureus (25923)	Inhibited	-	
Proteus vulgaris (13315 )	Inhibited	-	
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.		
<b>Use :</b>	As a selective medium for detection and isolation of Salmonella species in foods, particularly eggs and egg products.		

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<b>Storage :</b>	Dehydrated medium- below 8°C Prepared medium–Between 2 to 8°C.				
<b>Packing:</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B114</b>	59g/l	8.474L	6.9 ± 0.2	NIL	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 BIOMARKLABORATORIES publications.

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