

TECHNICAL SHEET

B1561	BRILLIANT GREEN PHENOL RED LACTOSE MONOHYDRATE SUCROSE AGAR (AGAR MEDIUM L)				
Formula					
Ingredients :		gms/lit.			
Peptones (meat and casein)	10.00				
Yeast extract	3.00				
Lactose monohydrate	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 57.59 grams (the equivalent weight of dehydrated medium per litre) in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes or as per validated cycle. Cool to 45-50°C. Mix well before pouring into sterile Petri plates.					
Principle :					
Peptone and yeast extract supply essential amino acids and long chains of peptides for enhanced growth. Sodium chloride maintains the osmotic equilibrium. Lactose monohydrate and sucrose are the fermentable carbohydrate sources. Phenol red serves as an acid base indicator giving yellow colour to lactose and or sucrose fermenting bacteria. This medium also contains brilliant green, which inhibits growth of majority of Gram-negative and Gram-positive bacteria. Salmonella Typhi, Shigella species, Escherichia coli, Proteus species, Pseudomonas species, and Staphylococcus aureus are mostly inhibited.					
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 incubation at 30-35°C for 24-48 hours.					
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. Salmonella Typhi and Shigella species may not grow on this medium, moreover Proteus, Pseudomonas and Citrobacter species may mimic enteric pathogens by producing small red colonies. 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				
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
B1561	57.59 g/l	8.682 L	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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