

TECHNICAL SHEET

BW439	BRILLIANT GREEN AGAR W/PHOSPHATES				
Formula					
Ingredients :					
	gms/lit.				
Peptic digest of animal tissue	10.00				
Yeast extract	3.00				
Lactose	10.00				
Sucrose	10.00				
Disodium phosphate	1.00				
Phenol red	0.09				
Brilliant green	0.0047				
Meat extract B #	5.00				
Monosodium phosphate	0.60				
Agar	12.00				
# Equivalent to Beef extract					
Final pH (at 25°C) : 6.9 ± 0.2					
Directions :					
Suspend 52 gms. in 1000ml. distilled water. Heat with occasional agitation and bring just to the boil to dissolve the medium completely. DO NOT AUTOCLAVE. For maximum recovery, Sulpha Supplement may be aseptically added. Cool to 50° C. Mix well and pour into sterile petri plates.					
Principle :					
In Brilliant Green Agar, Peptic digest of animal tissue and Yeast Extract provide nitrogen, vitamins and minerals. Lactose and Sucrose are the carbohydrates in the medium. Phenol red is the pH indicator that turns the medium a yellow color with the formation of acid when lactose and/or sucrose is fermented. Sodium Chloride maintains the osmotic balance in the medium. Brilliant Green inhibits gram-positive bacteria and most gram-negative bacilli other than Salmonella spp. Lactose / sucrose fermenters are usually inhibited. Agar is the solidifying agent.					
QC Tests – (I) Dehydrated Medium					
Colour :	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 enteritidis (13076)	Luxuriant	Bright red			
Salmonella typhimurium (14028)	Luxuriant	Bright red			
Proteus vulgaris (13315)	None-poor	Red			
Pseudomonas aeruginosa (10145)	None-poor	Red			
Escherichia coli (25922)	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 :	Recommended by BIS for selective isolation of Salmonellae while inhibiting E.coli, Proteus, Pseudomonas species.				
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
BW439	52g/l	9.615L	6.9 ± 0.2	Sulpha Supplement	DO NOT AUTOCLAVE

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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