

**TECHNICAL SHEET**

<b>B1469</b>	<b>BRILLIANT GREEN BILE BROTH 2%</b>					
<b>Formula</b>						
<b>Ingredients:</b>		<b>gms/lit.</b>				
Enzymatic digest of casein		10.00				
Lactose monohydrate		10.00				
Dehydrated oxbile		20.00				
Brilliant green		0.0133				
Final pH (at 25°C) : 7.2 ± 0.2						
<b>Directions :</b>						
Suspend 39.51 grams (the equivalent weight of dehydrated medium per liter) in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense the medium in quantities of 10ml in test tubes of approximately 16mm x 160mm containing Durham tubes. Sterilize in an autoclave set at 121°C for 15 minutes. The Durham tube shall not contain air bubbles after sterilization.						
<b>Principle:</b>						
Enzymatic digest of casein is a source of carbon and nitrogen for general growth requirements. Brilliant green and oxgall present in the medium inhibit gram-positive bacteria including lactose fermenting Clostridia. Production of gas from lactose fermentation is detected by incorporating inverted Durham's tube, indicates a positive evidence of faecal coliforms since nonfaecal coliforms growing in this medium do not produce gas. Lactose is a carbohydrate source.						
<b>QC Tests - (I)Dehydrated Medium</b>						
Colour :		Cream to pale green				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Emerald green				
Clarity (post autoclaving/heating) :		Clear				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 -48 hrs at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH	GAS			
Escherichia coli (25922)		Good-luxuriant	+			
Enterobacter aerogenes (13048)		Good-luxuriant	+			
Enterococcus faecalis (29212)		None-poor	-			
Staphylococcus aureus (25923)		Inhibited	-			
Bacillus cereus (10876)		Inhibited	-			
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. IRRITANT. Irritating to eyes, respiratory system and skin. Wear suitable gloves and eye / face protection.				
<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>		For the confirmation of coliform bacteria present in foods and environmental samples in the area of food production and food handling. Recommended by ISO 4831:2006(E)				
<b>Storage :</b>		Dehydrated medium- below 30°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>B1469</b>	39.51 g/l	12.655 L	7.2 ± 0.2	NIL	121°C / 15 minutes	