

B198		GIOLITTI CANTONI BROTH BASE				
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		10.00				
Meat extract B#		5.00				
Yeast extract		5.00				
Mannitol		20.00				
Sodium chloride		5.00				
Lithium chloride		5.00				
Glycine		1.20				
Sodium pyruvate		3.00				
# Equivalent to Beef extract						
Final pH (at 25°C) : 6.9 ± 0.2						
Directions :						
Suspend 54.2 grams in 1000 ml distilled water. Warm gently to dissolve the medium completely. Dispense 19 ml amounts in 20mm x 200mm test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool rapidly to room temperature and aseptically add 0.3 ml of 3.5% Potassium Tellurite Solution (BF008) to each tube. Add 0.03 ml for testing meat and meat products. Mix well before use.						
Caution : Lithium chloride is harmful. Avoid bodily contact and inhalation of vapours. On contact with skin, wash with plenty of water immediately						
Principle :						
Mannitol and Sodium pyruvate present in the basal medium act as growth stimulants for Staphylococcus aureus, aiding in detection of small number of organisms. Lithium chloride inhibits gram – negative lactose fermenting bacilli. Addition of sterile paraffin wax to the inoculated medium inhibits Micrococci due to creation of anaerobic conditions. Potassium tellurite concentration must be reduced as per the weight of test sample (0.1 – 0.01 gram). The medium should be inoculated as soon as it has been cooled after sterilization, otherwise absorbed oxygen should be expelled by placing the tubes in free – flowing steam for 15-20 minutes.						
QC Tests – (I) Dehydrated Medium						
Colour :		Light yellow to brownish yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		6.9 ± 0.2				
Colour (post autoclaving/heating) :		Medium amber				
Clarity (post autoclaving/heating) :		Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed with added 3.5% Potassium Tellurite Solution (FD047), after an incubation at 35-37°C for 24-48 hours.						
MICROORGANISM (ATCC)		GROWTH		REACTION		
Staphylococcus aureus (25923)		Luxuriant		+		
Escherichia coli (25922)		Inhibited		-		
Micrococcus luteus (10240)		Inhibited		-		
Staphylococcus aureus (25923)		Luxuriant		+		
Bacillus cereus (11778)		Inhibited		-		
Pseudomonas aeruginosa (27853)		Inhibited		-		
Key: + = positive blackening at the bottom of tubes or general blackening of the medium.						
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 :		For selective enrichment of Staphylococcus aureus from suspected food stuffs.				
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
B198		54.2g/l	9.22 L	6.9 ± 0.2	3.5% Potassium Tellurite Solution (BF008)	121°C / 15 minutes

Refer disclaimer Overleaf

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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