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TECHNICAL SHEET

B1434	GIOLITTI CANTONI STAPHYLOCOCCI BROTH		
Formula			
Ingredients:		gms/lit.	
Tryptone		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 gms in 900ml distilled water. Warm gently to dissolve the medium completely. Dispense 10ml amounts in 16mm X 160mm test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool rapidly to room temperature and aseptically add 0.1 ml of 1% Potassium Tellurite Solution (BF010) to each tube. Add 0.03 ml for testing meat and products. Mix well before use.			
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 :	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 after 24 - 48 hrs. at 35- 37°C.			
	MICROORGANISM (ATCC)	GROWTH	REACTION
	Staphylococcus aureus (25923)	Luxuriant	+
	Escherichia coli (25922)	Inhibited	-
	Micrococcus luteus (10240)	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.	

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Use:	For selective enrichment of Staphylococcus aureus from suspected food stuffs. Recommended by ISO 6888-3				
Storage:	Dehydrated medium- below 30 ° C Prepared mediums- Between 2 to 8°C.				
Packing:	500 gm bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1434	54.2g/l	9.22 L	6.9 ± 0.2	1%Potassium Tellurite Solution (BF010)	121 ⁰ C / 15 minutes
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				

Refer disclaimer overleaf

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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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