

TECHNICAL SHEET

B1050	GTC AGAR BASE				
Formula					
Ingredients :		gms/lit.			
Casein enzymichydrolysate		15.00			
Papaic digest of soyabean meal		5.00			
Sodium chloride		5.00			
Monopotassium phosphate		5.00			
Dextrose		1.00			
Esculin		1.00			
Thallous acetate		0.50			
Ferric citrate		0.50			
Polysorbate 80		0.75			
Agar		15.00			
Final pH (at 25°C) : 7.3 ± 0.2					
Directions :					
Suspend 24.37 gms. in 500 ml. distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 55°C and aseptically add rehydrated contents of 1 vial of GTC Supplement and 10ml of sterile 10% sodium bicarbonate solution just before use. Mix well and pour into sterile petri plates.					
Principle :					
This medium is selective due to the presence of Thallous acetate. Esculin differentiates between Esculin positive group D streptococci from negative streptococcus agalactiae. Casein enzymichydrolysate and Peptic digest of Soyabean meal provide nitrogen, carbon and amino acids. Dextrose is the source of carbohydrates. Sodium chloride maintains osmotic equilibrium. Addition of GTC supplement inhibits organisms other than Enterococci.					
QC Tests - (I) Dehydrated Medium					
	Colour :	Cream to light yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	7.3 ± 0.2			
	Colour (post autoclaving/heating) :	Cream to light amber			
	Clarity (post autoclaving/heating) :	Slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 hrs. at 35-37°C.					
	MICROORGANISM (ATCC)	GROWTH	ESCULIN HYDROLYSIS		
	Enterococcus faecalis (29212)	Luxuriant	+		
	Staphylococcus aureus (25923)	Inhibited	-		
	Streptococcus agalactiae (13813)	Luxuriant	-		
	Key : + = blackening of medium - = no change				
Precautions :	<ol style="list-style-type: none"> For Laboratory Use. Follow proper, established laboratory procedures in handling and disposing of infectious materials. POISON. : Thallium salts are very toxic by inhalation or by ingestion and there is a danger of cumulative effects. Products containing thallium salts must be kept away from food, drink and animal feeding stuffs. Always wear a mask and gloves when handling the powder. 				
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 recovery of Enterococci from foods within 18 hours.				
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
B1050	48.74 g/l	10.25L	7.3 ± 0.2	GTC Supplement and 10ml of sterile 10% sodium bicarbonate solution	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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