

TECHNICAL SHEET

B1032	FGTC AGAR BASE					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		15.00				
Papaic digest of soyabean meal		5.00				
Sodium chloride		5.00				
Monopotassium phosphate		5.00				
Galactose		1.00				
Thalious acetate	0.50					
4-Methylumbelliferyl-D-Galactoside		0.10				
Polysorbate 80		0.75				
Agar		15.00				
Final pH (at 25°C) : 7.3± 0.2						
Directions :						
Suspend 47.35 grams in 970 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Aseptically add rehydrated contents of 2 vials of Amylose Azure (BF111) and 1 vial each of FGTC Antibiotic Supplement (BF053) and Sodium Bicarbonate Solution (BF054). Mix well before pouring into sterile Petri plates.						
Principle :						
Casein enzymic hydrolysate and papaic digest of soyabean meal act as sources of carbon, nitrogen, vitamins and minerals. Monopotassium phosphate provides buffering to the medium. Sodium chloride provides essential ions. Galactose serves as the carbohydrate source. The antibiotic supplement inhibits contaminating microflora and lactic acid bacteria occurring in food. 4-Methylumbelliferyl #-D-Galactoside is a fluorogenic compound. Polysorbate 80 acts as a neutralizer while thalious acetate makes the media selective						
QC Tests - (I) Dehydrated Medium						
	Colour :	Cream to yellow				
	Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	7.3 ± 0.2				
	Colour (post autoclaving/heating) :	Yellow				
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel forms in Petri plates				
(III) Q.C. Test Microbiological						
	Cultural characteristics observed after 18 - 24hrs. at 35-37°C with added FGTC Antibiotic Supplement (BF053), Amylose Azure (BF111) and Sodium Bicarbonate Solution (BF054)					
	MICROORGANISM (ATCC)	GROWTH	Starch hydrolysis	Fluorescence (under uv)		
	Enterococcus faecalis (29212)	good	negative, no clearing	negative		
	Enterococcus faecium (19434)	luxuriant	negative, no clearing	negative		
	Streptococcus bovis(27960)	luxuriant	positive, clearing around the colony	positive		
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 :		Fluorogenic Gentamicin Thalious Carbonate (FGTC) Agar is used for the recovery of a wide variety of Enterococci from foods.				
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
B1032		47.35g/l	10.56L	7.3 ± 0.2	FGTC Antibiotic Supplement (BF053), Amylose Azure (BF111) and Sodium Bicarbonate Solution (BF054)	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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