

TECHNICAL SHEET

B531	GLUCOSE CYSTEINE AGAR BASE W/THIAMINE					
Formula						
Ingredients :		gms/lit.				
Meat peptone		3.00				
Papaic digest of soyabean meal		10.00				
Sodium chloride		5.00				
Cysteine hydrochloride		1.00				
Dextrose		25.00				
Thiamine		0.0005				
Agar		14.00				
Final pH (at 25°C): 6.9 ± 0.2						
Directions :						
Suspend 58 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add sterile packed erythrocytes at a final concentration of 2% or 4-5% defibrinated sheep/rabbit blood. Mix well and pour into sterile Petri plates.						
Principle :						
Meat peptone and papaic digest of soyabean meal provide essential growth nutrients. Dextrose serves as an easily metabolisable carbohydrate source while sodium chloride maintains the osmotic balance. Thiamine and cysteine hydrochloride serves as growth factor promoters required for culturing Pasteurella.						
QC Tests - (I)Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		6.9 ± 0.2				
Colour (post autoclaving/heating):		Basal medium : Amber coloured, cherry red coloured after addition of blood				
Clarity (post autoclaving/heating):		Basal medium: clear to slightly opalescent, opaque after addition blood				
(III)Q.C. Test Microbiological						
Cultural characteristics observed with added 4-5% defibrinated sheep blood after an incubation at 35-37°C for 48-72 hours in presence of 10% CO ₂						
MICROORGANISM (ATCC)		GROWTH				
Francisella tularensis (29684)		Luxuriant				
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 :		It is used for cultivation and enumeration of Francisella tularensis (Pasteurella tularensis)				
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
B531	58.0g/l	8.62	L	6.9 ± 0.2	defibrinated sheep/rabbit blood or sterile packed erythrocytes	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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