

TECHNICAL SHEET

B564	MUTANS SANGUIS AGAR				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		15.00			
Yeast extract		5.00			
L-Cystine		0.20			
Sodium sulphite		0.10			
Sodium chloride		1.00			
Disodium phosphate		0.80			
Sodium bicarbonate		2.00			
Sodium acetate		12.00			
Sucrose		50.00			
Agar		12.00			
Final pH (at 25°C) : 7.3 ± 0.2					
Directions :					
Suspend 98.1 gms.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.					
Principle :					
Casein enzymic hydrolysate and yeast extract supply essential nutrients, minerals and vitamins. Sodium chloride maintains osmotic balance. Sucrose is a fermentable carbohydrate. Sodium acetate inhibits contaminating bacteria and suppresses swarming growth. Sucrose allows some species of Streptococci to produce characteristic colonies as a result of extracellular polysaccharide formation from this substance.					
QC Tests - (I)Dehydrated Medium					
Colour :		Light yellow			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.3 ± 0.2			
Colour (post autoclaving/heating) :		Light yellow			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 18 -24 hrs.at 35-37°C, incubation in 10% CO ₂ .					
MICROORGANISM (ATCC)		GROWTH		COLONY COLOUR	
Streptococcus mutans (25175)		Good - luxuriant		Greyish yellow	
Streptococcus sanguis (10556)		Good - luxuriant		White, grey or colourless	
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 differentiation of Streptococcus mutans and Streptococcus sanguis associated with oral microflora.				
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
B564	98.1g/l	5.096L	7.3 ± 0.2	NIL	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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