

B1369	MITIS SALIVARIUS BROTH				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		15.00			
Peptic digest of animal tissue		5.00			
Dextrose		1.00			
Sucrose		50.00			
Dipotassium phosphate		4.00			
Trypan blue		0.075			
Crystal violet		0.0008			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 75.0 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50-55°C and add 1 ml of sterile 1% Potassium Tellurite solution. DO NOT REHEAT the medium after the addition of tellurite solution.					
Principles :					
Mitis Salivarius Agar contains Peptic digest of animal tissue and Casein enzyme hydrolysate as sources of carbon, nitrogen, vitamins and minerals. Dextrose and Sucrose are carbohydrate sources. Dipotassium phosphate buffers the medium. Crystal Violet and Potassium Tellurite inhibit most gram – negative bacilli and most gram – positive bacteria except streptococci. Trypan Blue gives the colonies a blue colour. Agar is the solidifying agent.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light blue			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Deep blue			
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 - 48 hours at 35 - 37°C.					
MICROORGANISM (ATCC)		GROWTH	COLOUR OF COLONY		
Streptococcus pyogenes (19615)		Good - Luxuriant	Blue		
Streptococcus mitis (9895)		Good - Luxuriant	Blue		
Streptococcus salivarius		Good - Luxuriant	Blue (gum drop)		
Escherichia coli (25922)		Inhibited	--		
Staphylococcus aureus (25923)		Inhibited	--		
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. 2. If coliforms grown on the medium, they produce brown colonies. 3. Molds will grow on the medium after two days incubation. 4. Erysipelothrix rhusiopathiae produces colourless, circular, convex colonies. 5. Beta – hemolytic streptococci produce colonies that resemble S. mitis.				
Use :	For isolation from mixed cultures of Streptococci especially Streptococcus mitis, Streptococcus salivarius, Enterococcus faecalis showing alpha and gamma haemolytic reactions on Blood Agar.				
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
B1369	75g/l	6.666 L	7.0 ± 0.2	1% Potassium Tellurite solution.	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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