B258	**MITIS SALIVARIUS AGAR**
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
Agar	15.00
Final pH (at 25°C) : 7.0 ± 0.2	

Directions :

Suspend 90.07 grams in 1000 ml distilled water. Heat to boiling 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 (BF010). Do not reheat the medium after the addition of tellurite solution. Mix well and pour into sterile Petri plates..

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 yellow to Light blue		
	Appearance :	Homogeneous Free Flowing powder		
(II)Rehydrated medium				
	pH (post autoclaving/heating) :	7.0 ± 0.2		
	Colour (post autoclaving/heating) :	Dark 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	
	Enterococcus faecalis (29212)	Good - Luxuriant	Blue-black	
	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
B258	90g/l	5.555L	7.0 ± 0.2	1% Potassium Tellurite solution (BF010)	121^{0}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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