

B597	MODIFIED THAYER MARTIN MEDIUM BASE (W/O SUPPLEMENT)					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		23.00				
Starch		1.00				
Sodium chloride		5.00				
Dextrose		2.50				
Agar		20.00				
Final pH (at 25°C) :		7.4 ± 0.2				
Directions :						
Suspend 51.5 grams in 900 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in 90 ml amounts in flasks and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C and aseptically add following sterile solutions:						
1. 20 ml blood lysed by heating at 55-56°C for 1 hour, to 90 ml medium.						
2. Antibiotic solution to a final concentration of 3 mcg vancomycin per ml medium and 7.5 mcg colistin methane sulphate per ml medium.						
Principle :						
Peptic digest of animal tissue provide nutrients to the organisms while starch neutralizes the toxic fatty acids if present in the agar. Addition of lysed blood after heating supplies vitamins , amino acids, coenzymes etc. which enhances the growth of pathogenic Neisseria . Vancomycin and colistin methane sulphate inhibit gram-positive and gram-negative bacteria respectively.						
QC Tests - (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Basal medium: Light amber, Chocolate after addition of sterile lysed blood and supplements				
Clarity (post autoclaving/heating) :		Basal medium: clear to slightly opalescent gel, opaque after addition of sterile lysed blood and supplements				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 35-37°C for 40-48 hours with added supplements						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Escherichia coli (25922)		inhibited		--		
Neisseria gonorrhoeae (19424)		good-luxuriant		small, grayishwhite to colourless, mucoid		
Neisseria meningitidis (13090)		good-luxuriant		medium to large, bluegray, mucoid		
Proteus mirabilis (25933)		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.				
Use :		It is used for selective isolation and enumeration of Neisseria species especially Neisseria gonorrhoeae.				
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
B597		57.22 g/l	8.73 L	7.4 ± 0.2	Lysed blood, 3mcg vancomycin, 7.5mcg colistin methane sulphate	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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