

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B043	THIOGLYCOLLATE MEDIUM W/ HEMIN & VITAMIN K					
Formula						
Ingredients:			gms/lit.			
Tryptose			15.00			
Yeast extract			10.00			
Sodium thioglycollate			0.50			
Sodium chloride			2.50			
L-cysteine hydrochloride			0.50			
Sodium bicarbonate			0.40			
Resazurin			0.001			
Hemin			0.005			
Vitamin K			0.0005			
Agar			0.75			
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 29.7 gms.in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Tryptose and yeast extract provide nitrogenous compounds, vitamin B complex and other essential growth nutrients for bacterial metabolism. Sodium thioglycollate and L-cysteine act as reducing agents and maintain a low oxygen tension in the medium. Vitamin K is a growth requirement for some strains of Bacteriodes melaninogenicus. Pink ring at the top (oxidized medium) is due to resazurin indicator. Hemin is the source of the X factor which stimulates the growth of many microorganisms.						
QC Tests - (I)Dehydrated Medium						
Colour :		Yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Amber				
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 - 48 hrs at 35 - 37°C.						
MICROORGANISM (ATCC)			GROWTH			
Bacteriodes melaninogenicus (15930)			Luxuriant			
Bacteriodes levii (9177)			Luxuriant			
Clostridium perfringens (12924)			Luxuriant			
Clostridium sporogenes (11437)			Luxuriant			
Streptococcus pyogenes (19615)			Luxuriant			
Bacteriodes vulgatus (8482)			Fair			
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 routine cultivation of fastidious anaerobic microorganisms. Also used for blood culturing and studying fermentation reactions.				
Storage :		Dehydrated medium and prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B043	29.7g/l	16.835L	7.2 ± 0.2	NIL	121°C /15 min.	