

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

BH044	FLUID THIOGLYCOLLATE MEDIUM					
Formula						
Ingredients :		gms/lit.				
Pancreatic digest of Casein		15.00				
Yeast extract		5.00				
Dextrose		5.50				
Sodium chloride		2.50				
L-Cystine		0.50				
Sodium thioglycollate		0.50				
Resazurin sodium		0.001				
Agar		0.750				
Final pH (at 25°C) :		7.1 ± 0.2				
Directions :						
Suspend 29.25 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 25 °C and store in a cool dark place preferably below 25° C.						
Principle :						
Dextrose, casein enzymic hydrolysate, yeast extract, beef extract, L-cystine provide the growth factors necessary for bacterial multiplication. Sodium thioglycollate act as a reducing agent and neutralizes the antibacterial effect of mercurial preservatives and other heavy metal compounds which exert a bacteriostatic effect in the materials under examination. Any increase in the oxygen content is indicated by a colour change of redox indicator, resazurin to red. The small amount of agar helps in maintaining low redox potential for stabilizing the medium.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.1 ± 0.2				
Colour (post autoclaving/heating) :		Light straw coloured solution with upper 1/5 medium pink on standing.				
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent solution				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 48-72 hrs.at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
*Bacillus subtilis (6633)		Luxuriant				
*Candida albicans (10231)		Luxuriant				
*Clostridium sporogenes (11437)		Luxuriant				
*Micrococcus luteus (9341)		Luxuriant				
Neisseria meningitides (13090)		Luxuriant				
Streptococcus pyogenes (19615)		Luxuriant				
*Bacteroides vulgatus (8482)		Fair – good				
* These cultures may be incubated at 25-30°C for 2-7 days.						
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 sterility testing of biologicals and for cultivation of aerobes, anaerobes and microorganisms pharmaceutical products in accordance with USP.				
Storage :		Dehydrated medium- below 30°C Prepared medium – At room temperature and away from light.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
BH044		29.25 g/l	17.09 L	7.1 ± 0.2	Nil	121°C/15 min.

Refer disclaimer overleaf

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