

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.			
Note: If more than the upper one-third of the medium has acquired a pink colour, the medium may be restored once by heating in a water bath or in free-flowing steam until the pink colour disappears.			
Principle :			
Dextrose, Pancreatic digest of Casein, yeast 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		
*Clostridium sporogenes (11437)	Luxuriant		
*Micrococcus luteus (9341)	Luxuriant		
*Bacteroides vulgatus (8482)	Luxuriant		
Clostridium sporogenes(19404)	Luxuriant		
Clostridium perfringens(13124)	Luxuriant		
Bacteroides fragilis(23745)	Luxuriant		
Staphylococcus aureus(25923)	Luxuriant		
Staphylococcus aureus(6538)	Luxuriant		
Pseudomonas aeruginosa(27853)	Luxuriant		
Pseudomonas aeruginosa(9027)	Luxuriant		
Streptococcus pneumoniae(6305)	Luxuriant		
Escherichia coli (25922)	Luxuriant		
Escherichia coli(8739)	Luxuriant		
Escherichia coli(NCTC9002)	Luxuriant		
Salmonella Typhimurium(14028)	Luxuriant		

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	Salmonella Abony(6017)	Luxuriant			
	* 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 :	Recommended for sterility testing of biological and for cultivation of aerobes, anaerobes and microaerophiles 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

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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