

**TECHNICAL SHEET**

<b>B044</b>	<b>FLUID THIOGLYCOLLATE MEDIUM</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Tryptone		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		0.75				
Final pH (at 25°C) :		7.1 ± 0.2				
<b>Directions :</b>						
Suspend 29.75 grams in 1000 ml distilled water. Heat to boiling 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.						
<b>Principle :</b>						
Dextrose, tryptone, 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.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
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				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 30-35°C for not more than 3 days.						
MICROORGANISM (ATCC )		GROWTH				
Bacillus subtilis (6633)		Luxuriant				
Clostridium sporogenes (11437)		Luxuriant				
Clostridium sporogenes (19404)		Luxuriant				
Clostridium perfringens (13124)		Luxuriant				
Staphylococcus aureus (25923)		Luxuriant				
Staphylococcus aureus (6538)		Luxuriant				
Micrococcus luteus (9341)		Luxuriant				
Streptococcus pneumoniae (6305)		Luxuriant				
Salmonella Typhimurium (14028)		Luxuriant				
Salmonella Abony (NCTC6017)		Luxuriant				
Bacteroides vulgatus (8482)		Luxuriant				
Bacteroides fragilis (23745)		Luxuriant				
Pseudomonas aeruginosa (27853)		Luxuriant				
Pseudomonas aeruginosa (9027)		Luxuriant				
Escherichia coli(25922)		Luxuriant				
Escherichia coli (8739)		Luxuriant				
Escherichia coli (NCTC 9002)		Luxuriant				
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		For sterility testing of biologicals and for cultivation of anaerobes, aerobes and microaerophiles.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium – At room temperature (15-25°C) and away from light.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B044</b>		29.75g/l	16.80L	7.1 ± 0.2	NIL	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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