

<b>B524</b>	<b>FLUID THIOGLYCOLLATE MEDIUM WITH MEAT EXTRACT B</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein enzymic hydrolysate		15.00				
Yeast extract		5.00				
Meat extract B#		5.00				
Dextrose		5.50				
Sodium chloride		2.50				
L-Cystine		0.50				
Sodium thioglycollate		0.50				
Resazurin		0.001				
Agar		0.75				
#-Equivalent to Beef extract						
<b>Directions :</b>						
Suspend 34.75 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.						
<b>Principle :</b>						
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.						
<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) :		7.2 ± 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 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.						
<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>		<b>B524:</b> for cultivation of anaerobic, microaerophilic aerobic microorganisms and for sterility testing.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium – At room temperature 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>B524</b>		34.75g/l	14.39L	7.2 ± 0.2	NIL	121 <sup>0</sup> 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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