

**TECHNICAL SHEET**

<b>CB010</b>	<b>Thioglycollate Broth</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		
Final pH (at 25°C): 7.1 ± 0.2			
<b>Directions:</b>			
Label the ready to use blood culture bottle (CB010). remove the top seal of the cap. Disinfect the part of the rubber stopper which is now exposed. Transfer the blood sample immediately into the culture bottle by puncturing the rubber stopper with the needle and injecting the blood. Venting: Use sterile venting needle. Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line. discard the needle and mix the contents by gently inverting the bottle 2-3 times. Do Not vent the bottle for anaerobic cultures. Incubate at 35±2°C for 24-72hrs			
<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 color change of redox indicator, resazurin to red. It is used for the sterility testing of certain biological products which are turbid or viscous.			
<b>(I) QC Tests</b>			
pH:	7.1 ± 0.2		
Color:	Light Yellow coloured clear solution		
Appearance:	Sterile clear Thioglycollate Broth in glass bottle		
<b>(II) Sterility test</b>			
Passes release criteria			
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after incubation at 35 - 37°C for 24-72 hours.			
MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH UNDER ANAEROBIC CONDITIONS	GROWTH UNDER AEROBIC CONDITIONS
Clostridium sporogenes ATCC 19404	50-100	luxuriant	-
Clostridium sporogenes NBRC 14293	50-100	luxuriant	-
Clostridium perfringens 13124	50-100	luxuriant	-
Clostridium sporogenes 11437	50-100	luxuriant	-
Staphylococcus aureus subsp. aureus 25923	50-100	-	luxuriant
Pseudomonas aeruginosa 27853	50-100	-	luxuriant
Pseudomonas aeruginosa 9027	50-100	-	luxuriant
Escherichia coli 25922	50-100	-	luxuriant
Escherichia coli 8739	50-100	-	luxuriant
Escherichia coli NCTC 9002	50-100	-	luxuriant
Salmonella Abony NCTC 6017	50-100	-	luxuriant
Salmonella Typhimurium 14028	50-100	-	luxuriant
Bacteroides vulgatus 8482	50-100	luxuriant	-
Bacteroides fragilis 23745	50-100	luxuriant	-

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<b>Precautions :</b>	1. In Vitro diagnostic use only. 2. Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.
<b>Limitations :</b>	1. Proper anaerobic conditions must be maintained for optimal recovery of organisms.
<b>Use:</b>	Recommended for the recovery of anaerobic and facultative microorganisms.
<b>Storage:</b>	Store between 15-25°C. Use before expiry date on the label.
<b>Packing:</b>	20ml/70ml in Glass bottle.

**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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