B045	THIOGLYCOLLATE MEDIUM W/O DEXTROSE
Formula	
Ingredients :	**gms/lit.**
Casein enzymic hydrolysate	20.00
Sodium chloride	2.50
Dipotassium phosphate	1.50
Sodium thioglycollate	0.60
L-cystine	0.40
Sodium sulphite	0.20
Methylene blue	0.002
Agar	0.50
Final pH (at 25°C) : 7.2 ± 0.2	

Directions :

Suspend 25.7 gms. in 1000ml. distilled water. If the medium is to be used for fermentation studies for diagnostic work add 0.5 to 1% carbohydrate of choice. Boil to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Alternatively, sterile carbohydrate solutions may be added to the broth after sterilization. The prepared medium should be stored in the dark at room temperature.

Principle :

Casein enzymic hydrolysate, L-cystine and salts provide essential nutrients like nitrogenous compounds, carbon, sulphur, minerals and amino acids. Sodium thioglycollate is incorporated as a reducing agent which lowers the oxidation – reduction potential thereby enabling the obligate anaerobes to multiply. Methylene blue is a redox indicator.

QC Tests – (I)Dehydrated Medium		
	Colour :	Greyish yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.2 ± 0.2
	Colour (post autoclaving/heating) :	Light yellow
	Clarity (post autoclaving/heating) :	Very slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after 48 hrs. incubation at 35-37°C (in an appropriate atmosphere).	
	MICROORGANISM (ATCC)	GROWTH
	Clostridium sporogenes (11437)	Good – luxuriant
	Streptococcus pyogenes (19615)	Good – luxuriant
	Bacillus subtilis (6633)	Good
	Candida albicans (10231)	Good
	Micrococcus luteus (10240)	Good
	Neisseria meningitidis (13090)	Good
	Bacteroides vulgatus (8482)	Fair

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 cultivation of anaerobic, microaerophilic and aerobic microorganisms and for fementation studies with various carbohydrates.
Storage :	Dehydrated medium- below 30°C Prepared medium– at room temperature.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B045	25.7g/l	19.455L	7.2 ± 0.2	0.5 to 1% carbohydrate	121^{0}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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