

TECHNICAL SHEET

B780	THIOGEL MEDIUM				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		17.00			
Papaic digest of soyabean meal		3.00			
Dextrose		6.00			
Sodium chloride		2.50			
Sodium thioglycollate		0.50			
L-cystine		0.25			
Sodium sulphite		0.10			
Gelatin		50.00			
Agar		0.70			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 80 gms.in 1000ml. distilled water, preheated to a temperature of 50°C. Mix well and allow to stand for 5 minutes. Heat to boiling to dissolve the medium completely. Dispense in test tubes filling them upto half of the tubes. Sterilize by autoclaving at 12 lbs pressure (118°C) for 15 minutes.					
Principle :					
Casein enzymic hydrolysate, papaic digest of soyabean meal, dextrose, L-cystine provide nitrogenous and carbonaceous compounds, trace elements, sulphur, and fermentable carbohydrate etc. Thioglycollate is the reducing agent which bind to the molecular oxygen and thus inhibit the accumulation of peroxides which are toxic to some microorganisms. Small amount of agar renders and maintains anaerobic conditon at the bottom of the tube. Gelatin serves as the substrate for determining the presence or absence of gelatinase enzyme in microorganisms.					
QC Tests – (I)Dehydrated Medium					
Colour :		Yellow			
Appearance :		Coarse, Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Light straw			
Clarity (post autoclaving/heating) :		Opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 18 - 48 hrs.at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH	GELATIN LIQUEFACTION		
Bacillus subtilis (6633)		Luxuriant	-		
Clostridium sporogenes (11437)		Luxuriant	+		
Micrococcus luteus (10240)		Luxuriant	-		
Neisseria meningitidis (13090)		Luxuriant	-		
Streptococcus pyogenes (19615)		Luxuriant	-		
Bacteroides fragilis (25285)		Luxuriant	-		
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 strictly anaerobic, aerobic as well as facultative microorganisms and for the identification of pure cultures on the basis of their ability of liquefy gelatin.				
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B780	80g/l	6.25L	7.0 ± 0.2	NIL	118°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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