

TECHNICAL SHEET

B573	M-Tergitol 7 Agar Base				
Formula					
Ingredients:		gms/lit.			
Peptic digest of animal tissue		2.50			
Casein enzymic hydrolysate		2.50			
Yeast extract		3.00			
Lactose		20.00			
Polyethelene ether w-1		5.00			
Sodium heptadecyl sulphate		0.10			
Bromo thymol blue		0.10			
Bromo cresol purple		0.10			
Agar		15.00			
Final pH (at 25°C) : 7.4 ± 0.2					
Directions :					
Suspend 48.3 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. For additional selectivity, after cooling the medium to 45-50°C aseptically add 1.0 µg of Penicillin G per milliliter of medium if desired.					
Principle:					
The casein enzymic hydrolysate and peptic digest of animal tissue provide necessary nitrogenous growth factors. Yeast extract is the source of B-vitamins and organic nitrogen and carbon compounds. Lactose is the fermentable carbohydrate. Microorganism fermenting lactose produces yellow colonies due to reaction with bromothymol blue and bromocresol purple indicators. These indicators also act as inhibitors of non-coliform microbes. Sodium heptadecyl sulphate (Tergitol 7) and polyoxyethylene ether W-1 are surface active agents which inhibit growth of gram-positive bacteria as well as swarming of Proteus.					
QC Tests – (I)Dehydrated Medium					
Colour :		Yellow to blue			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Purple			
Clarity (post autoclaving/heating) :		clear to slightly opalescent gel			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18- 24 hours at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY	
Escherichia coli (25922)		Luxuriant		yellow	
Enterobacter aerogenes (13048)		Luxuriant		yellow	
Salmonella Typhimurium (14028)		Luxuriant		blue	
Salmonella Paratyphi A (9150)		Luxuriant		blue	
Shigella flexneri (12022)		Luxuriant		blue	
Salmonella Typhi (6539)		Luxuriant		blue	
Staphylococcus aureus (25923)		Inhibited			
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 :	It is recommended for selective isolation and identification of injured coliforms from chlorinated water using membrane filter technique.				
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
B573	48.30 g/l	10.35L	7.4 ± 0.2	NIL	121°C / 15 minutes

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Page 02 of 02