

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B772	TERGITOL – 7 AGAR H				
Formula					
Ingredients :		gms/lit.			
Proteose peptone		5.00			
Yeast extract		3.00			
Lactose		10.00			
Sodium heptadecyl sulphate		0.10			
Bromo thymol blue		0.025			
Ferric ammonium citrate		0.50			
Sodium thiosulphate		0.50			
Agar		15.00			
Final pH (at 25°C) :		7.2 ± 0.2			
Directions :					
Suspend 34.13 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. Cool to 45-50°C. Aseptically add 3 ml of 1% 2,3,5 Triphenyl Tetrazolium Chloride (TTC) Solution (BF044), if desired. Mix well and pour into sterile Petri plates.					
Principle :					
Tergitol 7 Agar H, used for selective isolation and differentiation of enteric bacilli from urine samples. It contains sodium thiosulphate as an indicator of H ₂ S production. H ₂ S producing bacteria form black colonies or colonies with black centers. Sodium heptadecyl sulphate (Tergitol 7) inhibits gram – positive bacteria and Proteus swarming and yields better recovery of coliforms.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light to medium yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.2 ± 0.2			
Colour (post autoclaving/heating) :		Green			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 – 48 hrs.at 35-37 °C.					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY	H ₂ S		
Escherichia coli (25922)	Luxuriant	Yellow	-		
Proteus mirabilis (25933)	Luxuriant	Blue	+		
Salmonella enteritidis (13076)	Luxuriant	Blue	+		
Klebsiella pneumoniae (13883)	Fair - good	Greenish yellow	-		
Enterococcus faecalis (29212)	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. 2. Since the medium with TTC permits growth of coliform organisms, this fact must be taken into consideration in the isolation of Candida from specimens. 3. Pour plates do not give satisfactory results. 4. Allow plates to dry with lids slightly ajar for 1-2 hours after dispensing.				
Use:	For selective isolation and differentiation of enteric bacteria from urine specimens.				
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
B772	34.13 g/l	14.649L	7.2 ± 0.2	1%TTC (BF044)	121°C /15 min.