

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B339	TRYPTONE SUCROSE TETRAZOLIUM AGAR BASE (TSTA)					
Formula						
Ingredients:		gms/lit.				
Casein enzymic hydrolysate	15.00					
Papaic digest of soyabean meal	5.00					
Sodium chloride	30.00					
Saccharose	20.00					
Bile salts	0.50					
Agar	15.00					
Final pH (at 25°C): 7.1 ± 0.2						
Directions:						
Suspend 85.5 gms. in 1000ml. 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 and aseptically add 3ml. of 1% Triphenyl Tetrazolium Chloride (TTC) (BF044). Mix well before pouring into sterile petri plates.						
Principle:						
Casein enzymic hydrolysate and papaic digest of soyabean meal provide nitrogenous compounds and other essential growth nutrients. Saccharose (sucrose) is the energy source. High salt concentration makes it specific only for salt tolerating organisms. Bile salts inhibit gram – positive organisms. Agar is the solidifying agent.						
QC Tests – (I) Dehydrated Medium						
Colour:	Cream to yellow					
Appearance:	Homogeneous Free Flowing powder					
(II) Rehydrated medium						
pH (post autoclaving/heating):	7.1 ± 0.2					
Colour (post autoclaving/heating):	Light yellow					
Clarity (post autoclaving/heating):	Clear to slightly opalescent					
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 24 – 48 hrs.at 35-37°C.						
MICROORGANISM (ATCC)	GROWTH					
Vibrio parahaemolyticus (17802)	Good –Luxuriant					
Vibrio cholerae (15748)	Good – 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 isolation of Vibrio species with addition of TTC.						
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
B339		85.5g/l	5.847L	7.1 ± 0.2	1% Triphenyl Tetrazolium Chloride (TTC) (BF044).	121°C/15min.

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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