

TECHNICAL SHEET

B1505	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 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 and aseptically add 3 ml of 1% 2, 3, 5-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 for organisms having high osmotic tolerance. Bile salts inhibit gram-positive organisms. TTC is reduced by <i>V. parahaemolyticus</i> to red formazan dyes, visualized as red colonies.					
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			
<i>Vibrio parahaemolyticus</i> (17802)		good-luxuriant			
<i>Vibrio cholerae</i> (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 :	Tryptone Sucrose Tetrazolium Agar Base (TSTA) with addition of Triphenyl Tetrazolium Chloride is recommended for isolation of <i>Vibrio</i> species as per International Organization for Standardization (ISO) 1990, Draft, ISO/DIS 8914.				
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
B1505	85.50 g/l	5.847 L	7.1 ± 0.2	1% 2, 3, 5-Triphenyl Tetrazolium Chloride (TTC) (BF044)	121°C / 15 minutes.

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 BIOMARK LABORATORIES publications.

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