

TECHNICAL SHEET

B477	CRYSTAL VIOLET TETRAZOLIUM AGAR				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate	5.00				
Yeast extract	2.50				
Dextrose	1.00				
Crystal violet	0.001				
Agar	15.00				
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 23.5 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50°C and add 5 ml of sterile 1% solution of 2,3,5-Triphenyl Tetrazolium Chloride. Mix well and pour into sterile petri plates.					
Principle :					
Casein hydrolysate and yeast extract provide various nitrogenous nutrients to the organisms while dextrose serves as the carbon or carbohydrate source. Crystal violet inhibits most of the gram – positive organisms and therefore inclusion of crystal violet in the medium does not affect the growth of psychrotrophic organisms which are mostly gram – negative.					
QC Tests – (I)Dehydrated Medium					
Colour :	Greyish yellow				
Appearance :	Homogeneous Free Flowing powder				
(II)Rehydrated medium					
pH (post autoclaving/heating) :	7.0 ± 0.2				
Colour (post autoclaving/heating) :	Light purple				
Clarity (post autoclaving/heating) :	Clear to very slightly opalescent				
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 18 –48 hrs. at 28-30°C.					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY			
Listeria monocytogenes (19118)	Good - luxuriant	Maroon			
Pseudomonas aeruginosa (27853)	Good – luxuriant	Maroon			
Yersinia enterocolitica (27729)	Good – luxuriant	Maroon			
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 :	For detection of gram negative psychrotrophic bacteria causing food spoilage.				
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
B477	23.5g/l	21.2L	7.0 ± 0.2	1% solution of 2,3,5-Triphenyl Tetrazolium Chloride	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 BIOMARKLABORATORIES publications.

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