

B329	TPEY AGAR BASE					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		10.00				
Yeast extract		5.00				
D-mannitol		5.00				
Sodium chloride		20.00				
Lithium chloride		2.00				
Agar		18.00				
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 60 gms.in 900ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 12 lbs pressure (118°C) for 15 minutes. Cool to 50°C. Aseptically add 10 ml. of sterile 1% Potassium Tellurite (BF010), 100 ml. Egg Yolk emulsion (BF003) and Polymixin B to a final concentration of 4 mg/l. Mix well and pour into sterile petri plates.						
Principle :						
Casein enzymic hydrolysate, yeast extract and mannitol serve as an energy source for coagulase – positive Staphylococci which adopts fermentative pathway for the utilization of carbohydrate. Lithium chloride, potassium tellurite and Polymyxin B restricts the growth of wide range of bacteria including some coagulase – negative Staphylococci. The coagulase – positive Staphylococci are differentiated by their formation of jet black or dark grey colonies and the formation of a zone of precipitated egg yolk around the colonies or a clear zone around the colonies and precipitation below the colonies. Coagulase – negative organisms may produce small black pinpoint colonies without egg yolk precipitation or clearing around the colonies.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to Yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		a) Basal medium : Light amber b) With addition of egg yolk emulsion & potassium tellurite : Yellow				
Clarity (post autoclaving/heating) :		a) Clear to slightly opalescent b) Opaque				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours with added sterile 1% Potassium Tellurite (BF010) and Egg Yolk Emulsion (BF003) and polymyxin B.						
MICROORGANISM (ATCC)		GROWTH	COLOUR OF COLONY	LECITHINASE / HALOES OR CLEAR ZONES		
Staphylococcus aureus (25923)		Good-Luxuriant	Black	+		
Staphylococcus epidermidis (12228)		Poor – fair	Black	-		
Bacillus subtilis (6633)		Poor – fair	Brown	-		
Proteus mirabilis (25933)		Poor – fair	Brown	-		
Escherichia coli (25922)		Inhibited	-	-		
Streptococcus pyogenes (19615)		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 selective isolation and enumeration of Staphylococci from foods.						
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
B329		60g/l	8.33L	7.2 ± 0.2	1% Potassium Tellurite (BF010), Egg Yolk emulsion (BF003) and Polymixin B	118°C /15 min.

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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