

TECHNICAL SHEET

B1053	GELATIN SALT AGAR					
Formula						
Ingredients :						
		gms/lit.				
Gelatin		15.00				
Peptic digest of animal tissue		4.00				
Yeast extract		1.00				
Sodium chloride			30.00			
Agar			15.00			
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 65 gms 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.						
Principle :						
Vibrio species require high sodium chloride concentration for growth and are called Halophilic or Halophiles. Gelatin Salt Agar is used to screen isolates for salt tolerance. It is recommended to inoculate Gelatin Agar along with Gelatin Salt Agar, ashalophilic Vibrio species grow only on Gelatin Salt Agar. An opaque halo is seen around growth of gelatinase positive organisms. Peptic digest of animal tissue and yeast extract provides essential nutrients required for growth of Vibrio species.						
QC Tests – (I)Dehydrated Medium						
Colour :	Yellow					
Appearance :	Homogeneous Free Flowing powder					
(II)Rehydrated medium						
pH (post autoclaving/heating) :	7.2 ± 0.2					
Color (post autoclaving/heating) :	Light yellow					
Clarity(postautoclaving/heating) :	Clear to very slightly opalescent					
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs. at 35-37°C.						
MICROORGANISM (ATCC)	GROWTH			GELATINASE REACTION		
	GELATIN AGAR	GELATIN SALT AGAR				
Vibrio cholerae (9459)	Luxuriant	Luxuriant		+		
Vibrio mimicus	Luxuriant	Luxuriant		+		
Vibrio parahaemolyticus (17802)	-	Luxuriant		+		
Vibrio vulnificus	-	Luxuriant		+		
Key : + = opaque halo around the colony						
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 cultivation and differentiation of Vibrio species 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
B1053	65 g/l		7.69 L	7.2 ± 0.2	nil	121°C / 15 minutes

Disclaimer:

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