

B296	NUTRIENT GELATIN				
Formula					
Ingredients :			gms/lit.		
Peptic digest of animal tissue			5.00		
Beef extract			3.00		
Gelatin			120.00		
Final pH (at 25°C) :			6.8 ± 0.2		
Directions :					
Suspend 128 grams in 1000 ml of warm (50°C) distilled water. Heat to boiling to dissolve the medium completely. Dispense into test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the tubed medium to cool in an upright position.					
Principle :					
Peptic digest of animal tissue and beef extract supply nutrients for the growth of non-fastidious organisms. Gelatin is the substrate for the determination of the ability of an organism to produce gelatinase, a proteolytic enzyme active in the liquefaction of gelatin. Gelatin is solid at 20°C or less temperature and liquid at 35°C or higher temperature. Gelatin liquefies at about 28°C, so incubation is carried out at 35°C but kept in a refrigerator for about 2 hours before interpretation of the results.					
QC Tests – (I) Dehydrated Medium					
Colour :			Cream to yellow		
Appearance :			Homogeneous Free Flowing powder		
(II) Rehydrated medium					
pH (post autoclaving/heating) :			6.8 ± 0.2		
Colour (post autoclaving/heating) :			Light amber		
Clarity (post autoclaving/heating) :			Clear to slightly opalescent gel		
(III) Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 35-37°C for 1 to 7 days, (Incubated anaerobically for <i>Cl.perfringens</i>). (For gelatinase test, cool below 20°C)					
MICROORGANISM (ATCC)		GROWTH		GELATINASE	
Clostridium perfringens (12924)		Good-luxuriant		Positive reaction	
Bacillus subtilis (6633)		Good-luxuriant		Positive reaction	
Escherichia coli (25922)		Good-luxuriant		Negative reaction	
Proteus vulgaris (13915)		Good-luxuriant		Positive reaction	
Staphylococcus aureus(25923)		Good-luxuriant		Positive reaction	
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:					
It is recommended for detection of gelatin liquefaction by proteolytic microorganisms.					
Storage :					
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
Packing :					
500 gm. bottle					
Product profile:		Reconstitution		Quantity on Preparation (500g)	
B296		128 g/l		3.9 L	
		pH (25°C)		Supplement	
		6.8 ± 0.2		NIL	
		Sterilization		121°C / 15 minutes	