

<b>B789</b>	<b>TRYPTONE DEXTROSE AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>			<b>gms/lit.</b>			
Casein enzymic hydrolysate			20.00			
Dextrose			5.00			
Bromo thymol blue			0.01			
Agar			3.50			
Final pH (at 25°C) :			7.3 ± 0.2			
<b>Directions :</b>						
Suspend 28.51 gms in 1000ml. distilled water. Heat to dissolve the medium completely. Dispense in tubes and sterilize by autoclaving at 12 lbs pressure (118 °C) for 15 minutes. Cool the tubed medium in an upright position.						
<b>Principle :</b>						
Casein enzymic hydrolysate provides essential nutrients necessary to support the growth of nonfastidious microorganisms. Phenol red is the pH indicator. Small amount of agar renders it suitable for study of motility. Small amounts of acid produced do not readily get dispersed throughout the medium and hence positive reaction can be more quickly determined in this medium than in liquid medium. This is also an excellent medium for the maintenance for both – aerobic and anaerobic cultures. Viability in this medium is greater than in any other broth medium or slant culture.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :			Greenish Yellow			
Appearance :			Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :			7.3 ± 0.2			
Colour (post autoclaving/heating) :			Blue			
Clarity (post autoclaving/heating) :			Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 24 - 48 hrs at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH	MOTILITY	ACID		
Enterobacter aerogenes (13048)		Luxuriant	+	+		
Escherichia coli (25922)		Luxuriant	+	+		
Salmonella enteritidis (13076 )		Luxuriant	+	+		
Salmonella typhi ( 6539 )		Luxuriant	+	+		
Clostridium perfringens (12924)		Luxuriant	-	+		
Clostridium sporogenes (11437)		Luxuriant	+	+		
Staphylococcus aureus (25923)		Good	-	+		
Key : + = motile / yellowing of the medium						
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		<b>B789:</b> For studying motility and fermentation of dextrose by aerobes as well as anaerobes.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B789</b>		28.51g/l	17.53L	7.3 ± 0.2	Nil	118°C /15 min.