

TECHNICAL SHEET

B540	GLUCOSE BROTH					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		10.00				
Glucose		5.00				
Sodium chloride		5.00				
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 20 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Dispense in tubes containing inverted Durhams tubes. Sterilize by autoclaving at 118°C for 15 minutes.						
Principle :						
Casein enzymic hydrolysate and glucose serve as sources of essential nutrients and energy respectively to support the growth of many fastidious organisms. The casein enzymic hydrolysate used is free of carbohydrates and glucose acts as source of energy by being the only fermentable carbohydrate. The broth gives rapid growth and hastens the early development of injured cells. Sodium chloride maintains the osmotic equilibrium.						
QC Tests - (I) Dehydrated Medium						
Colour :		Light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow				
Clarity (post autoclaving/heating) :		Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 -24 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH	GAS			
Escherichia coli (25922)		Luxuriant	+			
Salmonella typhi (6539)		Luxuriant	-			
Shigella flexneri (12022)		Luxuriant	-			
Staphylococcus aureus(25923)		Luxuriant	-			
Staphylococcus epidermidis (12228)		Luxuriant	-			
Streptococcus pyogenes (19615)		Luxuriant	-			
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 study of dextrose fermentation whereas pH indicator is not desired.				
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
B540		20g/l	25 L	7.3 ± 0.2	nil	118°C / 15 minutes