

**TECHNICAL SHEET**

<b>BS003</b>	<b>ANTIBIOTIC ASSAY MEDIUM NO.3 (ASSAY BROTH)</b>		
<b>Formula</b>			
<b>Ingredients:</b>	<b>gms/lit.</b>		
Peptic digest of animal tissue	5.00		
Yeast extract	1.50		
Beef extract	1.50		
Dextrose	1.00		
Sodium chloride	3.50		
Dipotassium phosphate	3.70		
Potassium dihydrogen phosphate	1.30		
Final pH (at 25°C) : 7.0 ± 0.2			
<b>Directions :</b>			
Suspend 17.5gms in 1000ml. distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.			
<b>Principle :</b>			
Nutrients and growth factors are supplied by the ingredients like Peptic digest of animal tissues, Yeast extract, Beef extract etc. Sodium chloride maintains the osmotic equilibrium. Phosphates are for good buffering action. Dextrose as a sugar is also supplemented as a carbon and energy source. Agar is the solidifying agent			
<b>QC Tests - (I) Dehydrated Medium</b>			
Colour :	Cream to light yellow		
Appearance :	Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>			
pH (post autoclaving/heating):	7.0 ± 0.2		
Colour (post autoclaving/heating) :	Light amber to light yellow		
Clarity (post autoclaving/heating) :	Clear		
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after 18-24 hrs. at 35-37°C.			
MICROORGANISM (ATCC)	GROWTH	SERIAL DILUTION TEST WITH	
Escherichia coli (10536)	Luxuriant	Chloraphenicol	
Klebsiella pneumoniae (10031)	Luxuriant	Capreomycin, Dihydrostreptomycin, Streptomycin, Troleandomycin,	
Enterococcus hirae (10541)	Luxuriant	Gentamicin, Gramicidin, Neomycin, Novobiocin	
Staphylococcus aureus (29737)	Luxuriant	Amikacin, Chlortetracycline, Cycloserine, Demeclocycline, Doxycycline, Kanamycin, Kanamycin sulphate, Methacycline, Oxytetracycline, Rolitetracycline, Tetracycline, Tobramycin, Tylosin	
Staphylococcus aureus (9144)	Luxuriant	Tylosin	

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<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>	For microbiological assay of antibiotics as per USP/IP.				
<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>BS003</b>	17.5 g/l	28.57 L	7.0 ± 0.2	Nil	121°C / 15 minutes