

**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					
Meat extract B#	1.50					
Dextrose	1.00					
Sodium chloride	3.50					
Dipotassium phosphate	3.70					
Potassium dihydrogen phosphate	1.30					
# = Equivalent to beef extract						
Final pH (at 25°C) :		7.0 ± 0.2				
<b>Directions :</b>						
Suspend 17.5 grams in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Advice: Recommended for the microbiological assay of Amikacin, Capreomycin, Chlortetracycline, Chloramphenicol, Cycloserine, Demeclocycline, Dihydrostreptomycin, Doxycycline, Gentamicin, Gramicidin, Kanamycin, Methacycline, Neomycin, Novobiocin, Oxytetracycline, Rolitetracycline, Streptomycin, Tetracycline, Tobramycin, Trolendomycin and Tylosin according to official methods.						
<b>Principle :</b>						
Peptone, meat extract B and yeast extract provides essential nutrients and growth factors for enhanced microbial growth. Sodium chloride maintains the osmotic equilibrium of the medium and retains the cell viability and cell integrity. Phosphates in the medium provide good buffering action. Dextrose serves as the carbon and energy source. All conditions in the microbiological assay must be controlled carefully. The use of standard culture media in the test is one of the important steps for the good results.						
<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 WITH				
Escherichia coli (10536)	Luxuriant	Chloramphenicol				
Klebsiella pneumoniae (10031)	Luxuriant	Capreomycin, Dihydrostreptomycin, Streptomycin, Troleandomycin				
Enterococcus hirae (10541)	Luxuriant	--				
Staphylococcus aureus (29737)	Luxuriant	Amikacin, Chlortetracycline, Cycloserine, Demeclocycline, Doxycycline, Kanamycin, Kanamycin sulphate, Methacycline, Oxytetracycline, Rolitetracycline, Tetracycline, Tobramycin, Tylosin, Gentamicin, Gramicidin, Neomycin, Novobiocin				
Staphylococcus aureus (9144)	Luxuriant	Tylosin				
<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	

Refer disclaimer overleaf

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