

TECHNICAL SHEET

BS001	ANTIBIOTIC ASSAY MEDIUM NO.1 (SEED AGAR)			
Formula				
Ingredients:		gms/lit.		
Peptic digest of animal tissue	6.00			
Casein enzymic hydrolysate	4.00			
Yeast extract	3.00			
Meat extract B #	1.50			
Dextrose	1.00			
Agar	15.00			
# Equivalent to Beef extract				
Final pH (at 25°C) :		6.6 ± 0.2		
Directions :				
Suspend 30.5gms in 1000ml. distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.				
Advice : Recommended for the microbiological assay of Bacitracin, Nafcillin, Cephalothin, Cephaperin, Cloxacillin, Novobiocin, Penicillin-G.				
Principle :				
Nutrients and growth factors are supplied by the ingredients like Peptic digest of animal tissues, Casein enzymic hydrolysate, Yeast extract, Beef extract etc. Dextrose is a carbon and energy source. Agar is the solidifying agent.				
QC Tests - (I) Dehydrated Medium				
Colour :	Cream to yellow			
Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium				
pH (post autoclaving/heating):	6.6 ± 0.2			
Colour (post autoclaving/heating) :	Yellow			
Clarity (post autoclaving/heating) :	Slightly opalescent			
(III) Q.C. Test Microbiological				
Cultural characteristics observed after an incubation at specified temperature and period.				
MICROORGANISM (ATCC)	GROWTH	Inoculum medium	Incubation temperature/ period	
Escherichia coli (10536)	luxuriant	Chloramphenicol	32-35°C/ 24 hours	
Klebsiella pneumoniae (10031)	Good-luxuriant	Capreomycin, Dihydrostreptomycin, Neomycin, Streptomycin, Troleandomycin	36-37.5°C/ 16-24 hours	
Micrococcus luteus (9341)	luxuriant	Erythromycin	32-35°C/ 24 hours	
Micrococcus luteus (10240)	Good-luxuriant	Bacitracin	32-35°C/ 24 hours	Bacitracin
Staphylococcus aureus (29737)	luxuriant	Amikacin, Cephalothin, Cephaperin, Chlortetracycline, Cloxacillin, Cycloserine, Demeclocycline, Kanamycin,	32-35°C/ 24 hours	Cephalothin, Cephaperin, Cloxacillin, Nafcillin, Penicillin-G,

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			Methacycline, Nafcillin, Penicillin-G, Rolitetracycline, Tetracycline, Tobramycin, Tylosin		
	Staphylococcus epidermidis (12228)	Good-luxuriant	Gentamicin, Netilmicin, Neomycin, Novobiocin, Paromomycin, Sisomycin	32-35°C/ 24 hours	Novobiocin
	Bordetella bronchiseptica (4617)	luxuriant	Colistimethate sodium, Colistin, Polymyxin B	32-35°C/ 24 hours	
	Pseudomonas aeruginosa (25619)	Luxuriant	Carbenicillin	36-37.5°C/ 16- 24 hours	
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 used for microbiological assay of β-lactam and other antibiotics in accordance with United States Pharmacopoeia.				
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
BS001	30.5 g/l	16.39 L	6.6 ± 0.2	Nil	121°C / 15 minutes

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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