

TECHNICAL SHEET

BS025	ANTIBIOTIC ASSAY MEDIUM NO.37		
Formula			
Ingredients:		gms/lit.	
Casein enzymic hydrolysate		17.00	
Papaic digest of soyabean meal		3.00	
Dextrose		2.50	
Sodium chloride		5.0	
Dipotassium phosphate		2.50	
Final pH (at 25°C) :		7.3 ± 0.2	
Directions:			
Suspend 30 grams in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Dispense into tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 25°C and store in a cool dark place preferably below 25°C.			
Principle:			
Nutrients and growth factors are supplied by the ingredients like Casein hydrolysate & Papaic digest of soyabean meal. Dextrose as a sugar is also supplemented as a carbon and energy source. Dipotassium phosphate facilitates buffering in the medium. Sodium chloride maintains the osmotic balance of the medium. Turbidimetric antibiotic assay is based on the change or inhibition of growth of a test microorganism in a liquid medium containing a uniform concentration of an antibiotic. After incubation of the test organism in the working dilutions of the antibiotics, the amount of growth is determined by measuring the light transmittance using spectrophotometer. The concentration of antibiotic is determined by comparing amounts of growth obtained with that given by the reference standard solutions.			
QC Tests – (I)Dehydrated Medium			
Colour:		Cream to 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 an incubation at -			
MICROORGANISM (ATCC)	GROWTH		
Growth at 30-35°C for < = 3 days			
Escherichia coli (25922)	Luxuriant		
Escherichia coli (8739)	Luxuriant		
Escherichia coli (NCTC9002)	Luxuriant		
Salmonella Abony (6017)	Luxuriant		
Salmonella Typhimurium (14028)	Luxuriant		
Bacillus subtilis (6633)	Luxuriant		
Staphylococcus aureus (25923)	Luxuriant		
Staphylococcus aureus (6538)	Luxuriant		
Micrococcus luteus (9341)	Luxuriant		
Streptococcus pneumonia (6305)	Luxuriant		
Pseudomonas aeruginosa (27853)	Luxuriant		
Pseudomonas aeruginosa (9027)	Luxuriant		

Refer disclaimer Overleaf

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	Growth at 20-25°C for < = 5 days				
	Aspergillus brasiliensis (16404)	Luxuriant			
	Candida albicans (2091)	Luxuriant			
	Candida albicans (10231)	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:	It is used for cultivation of a wide variety of microorganisms and sterility testing of pharmaceutical preparations.				
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
BS025	30.0 g/l	16.66 L	7.3 ± 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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