

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

BS030	ANTIBIOTIC ASSAY MEDIUM NO.32				
Formula					
Ingredients:		gms/lit.			
Peptone	6.00				
Casein enzymic hydrolysate	4.00				
Yeast extract	3.00				
Meat Extract B#	1.50				
Dextrose	1.00				
Manganese sulphate	0.30				
Agar	15.00				
# Equivalent to beef extract.					
Final pH (at 25°C):		6.6 ± 0.2			
Directions:					
Suspend 30.8 gms in 1000ml purified/distilled water. Heat to boiling to dissolve the medium completely. Dispense & sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Advice: Recommended for the microbiological assay of Dihydrostreptomycin and Vancomycin.					
Principle:					
Nutrients and growth factors are supplied by the ingredients like Peptic digest of animal tissues, Casein hydrolysate, Yeast extract and Meat extract b etc. Dextrose as a sugar is also supplemented as a carbon and energy source. Agar is the solidifying agent. Manganese sulphate in this medium facilitates the sporulation & growth of Bacillus subtilis.					
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):		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 5 days at 32-35°C.					
MICROORGANISM (ATCC)		GROWTH		ANTIBIOTICS ASSAYED	
Bacillus subtilis (6633)		Good -luxuriant		Dihydrostreptomycin, Vancomycin.	
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 recommended for preparing inoculum of Bacillus subtilis to be used as test organism for assaying Dihydrostreptomycin and Vancomycin by plate assay method 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)	
BS030		30.8 g/l		16.23 L	
				pH (25°C)	
				6.6± 0.2	
				Supplement	
				Nil	
				Sterilization	
				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 BIOMARK LABORATORIES publications.

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