

<b>BS010</b>	<b>ANTIBIOTIC ASSAY MEDIUM NO.11(NEOMYCIN, ERYTHROMYCIN ASSAY AGAR)</b>			
<b>(ERYTHROMYCIN SEED AGAR)</b>				
<b>Formula</b>				
<b>Ingredients:</b>		<b>gms/lit.</b>		
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) :		8.3± 0.2		
<b>Directions :</b>				
Suspend 30.5 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates or as desired.				
Advice: Recommended for the microbiological assay of Erythromycin, Gentamycin, Neomycin, Sisomycin, Netilmicin and Paromomycin.				
<b>Principle :</b>				
Antibiotic Assay media are used in the performance of antibiotic assays. These media are recommended by USP and FDA. Nutrients and growth factors are supplied by the ingredients like peptone, tryptone, yeast extract and meat extract, Dextrose provides the carbon and energy source. Agar provides excellent medium for antibiotic diffusion and gives well-defined zones of inhibition. Higher pH provides the optimal conditions for activity of antibiotic and supports the growth of the test organisms.				
<b>QC Tests - (I)Dehydrated Medium</b>				
Colour :		Cream to yellow		
Appearance :		Homogeneous Free Flowing powder		
<b>(II)Rehydrated medium</b>				
pH (post autoclaving/heating):		8.3 ± 0.2		
Colour (post autoclaving/heating) :		Light yellow		
Clarity (post autoclaving/heating) :		Clear to slightly opalescent		
<b>(III)Q.C. Test Microbiological</b>				
Cultural characteristics observed after 18-24 hrs. at 35-37°C.				
MICROORGANISM (ATCC)	Inoculum (CFU)	GROWTH	RECOVERY	ANTIBIOTICS ASSAYED
Micrococcus luteus (9341)	50-100	Luxuriant	>=70%	Erythromycin while assaying tylosin,tylosin, tartarate, vancomycin hydrochloride, adjust the ph to 8.0±.0.2
Staphylococcus aureus (6538)	50-100	Luxuriant	>=70%	Kanamycin monosulphate, kanamycin acid sulphate, netilmicin sulphate
Staphylococcus epidermidis (12228)	50-100	Luxuriant	>=70%	Gentamicin, neomycin, netilmicin, paromomycin, sisomycin
Bacillus pumilis (14884)	50-100	Luxuriant	>=70%	Chlortetracycline ,framycetin, kanamycin sulphate
Bacillus subtilis (6633)	50-100	Luxuriant	>=70%	Dihydrostreptomycin sulphate, erythromycin estolate,kanamycin monosulphate, kanamycin acid
Bacillus subtilis NCTC 8236	50-100	Luxuriant	>=70%	Dihydrostreptomycin sulphate, streptomycin sulphate
Bacillus subtilis NCTC 8241	50-100	Luxuriant	>=70%	Erythromycin estolate, gentamicin sulphate
<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		

**TECHNICAL SHEET**

	grow or grow poorly on this medium.					
<b>Use:</b>	Antibiotic Assay Medium No.11 is used for microbiological assay of antibiotics in accordance with United States Pharmacopoeia.					
<b>Storage:</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
<b>Packing :</b>	500/100 gm bottle					
<b>Product profile:</b>	Reconstitution	Quantity on preparation (500g)            (100g)		pH (25°C)	Supplement	Sterilization
<b>BS010</b>	30.5 g/L	16.39 L	3.28L	8.3 ± 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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