

B921	ANTIBIOTIC ASSAY MEDIUM C	
Formula		
Ingredients:	gms/lit.	
Peptic digest of animal tissue (Peptone)	6.00	
Meat extract #	1.50	
Yeast extract	3.00	
Sodium chloride	3.50	
Dextrose	1.00	
Dipotassium phosphate	3.68	
Monopotassium phosphate	1.32	
# Equivalent to Beef Extract		
Final pH (at 25°C): 7.0 ± 0.2		
Directions:		
Suspend 20 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.		
Note: Adjust the medium pH to 8.0±0.2 for assaying Josamycin and Josamycin sulphate.		
Advice: Recommended for the microbiological assay of Colistimethate sodium, Dihydrostreptomycin sulphate, Erythromycin estolate, Erythromycin ethylsuccinate, Framycetin sulphate, Gentamicin sulphate, Gramicidin, Kanamycin acid sulphate, Kanamycin monosulphate, Neomycin sulphate, Rifamycin sodium, Spiramycin, Streptomycin sulphate, Tylosin, Tylosin tartarate, Tyrothricin and Vancomycin hydrochloride.		
Principle:		
Peptic digest of animal tissue, beef extract and yeast extract provide essential nutrients and growth factors for enhanced microbial growth. Sodium chloride maintains the osmotic equilibrium while phosphates are incorporated in the medium to provide good buffering action. Dextrose serves as the carbon and energy source for faster growth.		
QC Tests – (I) Dehydrated Medium		
Colour:	Cream to yellow	
Appearance:	Homogeneous Free Flowing powder	
(II) Rehydrated medium		
pH (post autoclaving/heating) :	7.0 ± 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 35-37°C for 18-24 hours.		
MICROORGANISM (ATCC)	GROWTH	SERIAL DILUTION WITH
Escherichia coli (25922)	luxuriant	Colistimethate sodium, Rifamycin sodium
Escherichia coli (9637)	luxuriant	Colistimethate sodium
Escherichia coli (10536)	luxuriant	Rifamycin sodium
Enterococcus hirae (10541)	luxuriant	Gramicidin, Tyrothricin
Klebsiella pneumonia (10031)	luxuriant	Dihydrostreptomycin sulphate, Streptomycin sulphate
Staphylococcus aureus (25923)	luxuriant	Erythromycin estolate, Framycetin sulphate, Genatamicin sulphate, Gramicidin, Kanamycin monosulphate, Kanamycin acid sulphate, Neomycin sulphate, Spiramycin, Tylosin, Tylosin hydrochloride, Vancomycin hydrochloride, While assaying Josamycin and Josamycin sulphate adjust the pH of the medium to 8.0±0.2
Staphylococcus aureus (6538P)	luxuriant	Erythromycin estolate, Framycetin sulphate, Genatamicin sulphate, Gramicidin, Kanamycin monosulphate, Kanamycin acid sulphate, Neomycin sulphate, Spiramycin, Vancomycin hydrochloride. While assaying Josamycin and Josamycin sulphate adjust the pH of the medium to 8.0 ± 0.1
Staphylococcus aureus (9144)		Tylosin, Tylosin tartarate

Refer disclaimer Overleaf

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 as the broth medium in turbidimetric assay of a wide variety of antibiotics.				
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
B921	20.0 g/l	25.00 L	7.0 ± 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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