

B549	GLYCEROL ASPARAGINE AGAR BASE (ISP MEDIUM NO.5)					
Formula						
Ingredients :		gms/lit.				
L-asparagine		1.00				
Dipotassium phosphate		1.00				
Trace salt solution (ml)		1.00				
Agar		20.00				
1ml of Trace salt solution contains -						
Ferrous sulphate heptahydrate		0.001				
Manganese chloride tetrahydrate		0.001				
Zinc sulphate heptahydrate		0.001				
Final pH (at 25°C) : 7.4 ± 0.2						
Directions :						
Suspend 22.002 gms in 1000 ml distilled water containing 10 ml glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.						
Principle :						
This medium provides consistent and reproducible characteristics of Streptomyces. Glycerol serves as the carbon source while asparagine is the amino acid source for the growth of Streptomyces species. Trace mineral requirement of the Streptomyces is satisfied by the trace salt solution which contains various salts. Dipotassium phosphate helps in maintaining buffering conditions in the medium.						
QC Tests - (I) Dehydrated Medium						
Colour :		Off-white to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Light amber				
Clarity (post autoclaving/heating) :		Slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed at 25-30°C after upto 15 days.						
MICROORGANISM (ATCC)		GROWTH				
Streptomyces albus (3006)		Good-Luxuriant				
Streptomyces lavendulae (8664)		Good-Luxuriant				
Streptomyces peucetius (29050)		Good-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 :						
For cultivation of Streptomyces species as per International Streptomyces Project.						
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
B549		22.002 g/l	22.73 L	7.4 ± 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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