

TECHNICAL SHEET

B559	INORGANIC SALT STARCH AGAR (ISP MEDIUM NO.4)				
Formula					
Ingredients :		gms/lit.			
Starch soluble		10.00			
Dipotassium phosphate		1.00			
Magnesium sulphate,heptahydrate		1.00			
Sodium chloride		1.00			
Ammonium sulphate		2.00			
Calcium carbonate		2.000			
Ferrous sulphate		0.001			
Manganous chloride		0.001			
Zinc sulphate		0.001			
Agar		20.000			
Final pH (at 25°C) : 7.2 ± 0.2					
Directions :					
Suspend 36.5 gms in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Agitate constantly while pouring into sterile Petri plates to obtain a uniform suspension.					
Note: Due to presence of calcium carbonate, the medium forms opalescent solution with white precipitate .					
Principle :					
Inorganic Salt Starch Agar (ISP medium no. 4) is formulated as per International Streptomyces Project. It is used for characterization of Streptomyces for selecting stable properties and reproducible procedures. Soluble starch is the carbohydrate source which together with different salts improves growth response.					
Inoculate the plates by streaking, using 0.1 ml of the test culture enriched in ISP Medium No. 1					
QC Tests - (I)Dehydrated Medium					
Colour :		Cream to yellow			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.2 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 48-72 hrs. at 30-32°C.					
MICROORGANISM (ATCC)		GROWTH			
Streptomyces achromogenes (12767)		Good - luxuriant			
Streptomyces albus (3004)		Good - luxuriant			
Streptomyces lavendulae (8664)		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 and characterization 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
B559	36.5 g/l	13.70 L	7.2 ± 0.2	Nil	121°C/15 min.

Refer disclaimer Overleaf

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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