

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B558	ISP MEDIUM NO.3					
Formula						
Ingredients :		gms/lit.				
Oat Meal		20.00				
Trace Salt solution (ml.) *		1.00				
Agar		18.00				
* 1 ml. Trace Salt Solution contains :						
Ferric sulphate heptahydrate		0.001				
Manganese chloride tetrahydrate		0.001				
Zinc sulphate heptahydrate		0.001				
Final pH (at 25°C) : 7.3 ± 0.2						
Directions :						
Suspend 38 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50 °C and mix intermittently while pouring into sterile Petri plates for even distribution of Oat meal.						
Principle :						
Oatmeal provides essential nutrients for the growth of Streptomyces. Trace salt solution provides essential electrolytes and minerals. Inoculate ISP medium No.1 (B556) with test organisms and incubate at 30 ± 2 °C up to 96 hours. Streak inoculate plates of ISP medium No.3 using 0.1 ml. of inoculum from this test culture.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream to beige				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Very Light amber				
Clarity (post autoclaving/heating) :		Opalescent gel with precipitate				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after upto 48-72 hours at 35-37C.						
MICROORGANISM (ATCC)		GROWTH				
Streptomyces achromogenes (12767)		Good – luxuriant				
Streptomyces albus <i>subspecies</i> 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 Streptomycetes 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
B558		38.0 g/l	13.15 L	7.3 ± 0.2	Nil	121°C/15 min.

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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