

TECHNICAL SHEET

B452	CARBON UTILISATION AGAR				
Formula					
Ingredients :		gms/lit.			
Ammonium sulphate		2.64			
Monopotassium phosphate		2.38			
Dipotassium phosphate,3 H ₂ O		5.65			
Magnesium sulphate,7H ₂ O		1.00			
Copper sulphate,5H ₂ O		0.0064			
Ferrous sulphate,7H ₂ O		0.0011			
Manganese chloride,7H ₂ O		0.0079			
Zinc sulphate,7H ₂ O		0.0015			
Agar		15.00			
Final pH (at 25°C) : 7.0 ± 0.2					
Directions :					
Suspend 24.83 gms. in 900 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50 C.and aseptically add 100 ml.of 10% filter sterilized desired carbohydrate solution. Mix well and dispense as desired.					
Principle :					
The various salts provide the electrolytes and minerals essential for growth of <i>Streptomyces</i> spp. The carbohydrates used for study are glucose, sucrose, xylose, arabinose, inositol, mannitol, rhamnose, raffinose, and fructose.					
QC Tests – (I)Dehydrated Medium					
Colour :		Light Yellow to off white			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Colorless			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed with added 100 ml. per lit of 10% filtered sterilized carbohydrate solution after 48-72 hrs. at 25-30 °C .					
MICROORGANISM (ATCC)		GROWTH			
<i>Streptomyces albus</i> subspp.albus (3006)		Good - Luxuriant			
<i>Streptomyces lavendulae</i> (8664)		Good - Luxuriant			
<i>Streptomyces peucetius</i> (29050)		Good - Luxuriant			
<i>Streptomyces purpureus</i> (27787)		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 characterization of <i>Streptomyces</i> on the basis of carbon utilization studies.				
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
B452	24.83g/l	20.13L	7.0 ± 0.2	10% filter sterilized desired carbohydrate	121°C / 15 minutes

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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