

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B373	SM SELECTIVE AGAR BASE					
Formula						
Ingredients :				gms/lit.		
Mannitol			2.50			
L-Glutamic acid			1.00			
Magnesium sulphate, 7H ₂ O			0.16			
Manganese sulphate, H ₂ O			0.310mg			
Potassium phosphate, monobasic			0.027mg			
Zinc sulphate, 7H ₂ O			0.550mg			
Ferric ammonium sulphate, 6H ₂ O			0.090mg			
Copper sulphate, 5H ₂ O			0.010mg			
Calcium sulphate, 5H ₂ O			0.010mg			
Phosphoric acid			0.005mg			
Potassium iodide			0.000006mg			
Agar			15.00			
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 18.66 grams in 990 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Aseptically add sterile rehydrated contents of 1 vial of SM Selective Supplement (BF104) and 10 ml of TTC Solution, 1% (BF044). Mix well and pour into sterile Petri plates or as desired.						
Principle :						
The medium contains mannitol as carbon source. The various salts added in trace amounts enhance the growth of <i>P. solanacearum</i> , while antibiotic solution serves to inhibit contaminating heterotrophic microflora from samples. The dye 2, 3, 5-triphenyl tetrazolium chloride (TTC) is used as indicator of oxidation-reduction state of the medium. <i>P. solanacearum</i> being highly oxidative, its colony takes up the pink colour of the oxidized dye.						
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) :		Opalescent gel				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 30°C for 48 hours with added SM Selective Supplement (BF104) and 10ml of TTC Solution 1% (BF044).						
MICROORGANISM (ATCC)			GROWTH			
<i>Pseudomonas aeruginosa</i> (27853)			none-poor			
<i>Pseudomonas solanacearum</i> (11696)			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 :		It is used for the isolation and cultivation of <i>Pseudomonas solanacearum</i> .				
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
B373		18.66 g/l	26.79 L	7.0 ± 0.2	SM Selective Supplement (BF104) and TTC Solution, 1% (BF044).	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 BIOMARK LABORATORIES publications.

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