

BIOMARK Laboratories-INDIA
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TECHNICAL SHEET

B620I	MODIFIED SKIM MILK AGAR					
Formula						
Ingredients:		gms/lit.				
Tryptone		5.00				
Yeast extract		2.50				
Glucose, Monohydrate		1.00				
Skim milk powder		1.00				
Agar		15.00				
Final pH (at 25°C):7.0 + 0.2						
Directions:						
Suspend 24.50 grams (the equivalent weight of dehydrated medium per litre) in 1000 ml distilled water. 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. Mix well and pour into sterile Petri plates.						
Principle:						
Tryptone and yeast extract provides nitrogenous and carbonaceous compounds, long chain aminoacids, vitamins and other essential nutrients. Glucose monohydrate is the source fermentable carbohydrate. Skim milk serves as a good source of casein. Agar is the solidifying agent.						
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):		Yellow				
Clarity (post autoclaving/heating):		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 24 - 48 hours at 30°C & 6.5°C						
MICROORGANISM (ATCC)		GROWTH AT 30°C		GROWTH AT 6.5°C		
Lactobacillus casei (9595)		Luxuriant		Inhibited		
Bacillus subtilis (6633)		Luxuriant		Luxuriant		
Clostridium perfringens (12924)		Luxuriant		Luxuriant		
Escherichia coli (25922)		Luxuriant		Luxuriant		
Staphylococcus aureus (25923)		Luxuriant		Inhibited		
Pseudomonas aeruginosa (27853)		Luxuriant		Inhibited		
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 enumeration of microorganisms encountered in dairy industry as per International Organization for Standardization (ISO), 1992, Draft, ISO/DIS 6610 and International Organization for Standardization (ISO), 1992, Draft, ISO/DIS 6730.						
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
B620I		24.5g/l	20.408L	7.0 ± 0.2	NIL	121 ⁰ 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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