

TECHNICAL SHEET

B1454	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)	
B1454		24.5g/l		20.408L	
		pH (25°C)		Supplement	
		7.0 ± 0.2		NIL	
		Sterilization		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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.