

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B487	DEXTROSE SALT AGAR				
Formula					
Ingredients :		gms/lit.			
Dextrose		10.00			
Yeast extract		1.00			
Ammonium nitrate		1.00			
Ammonium sulphate		1.00			
Disodium phosphate		4.00			
Monopotassium phosphate		2.00			
Sodium chloride		1.00			
Agar		15.00			
Final pH (at 25°C) : 6.6 ± 0.2					
Directions :					
Suspend 35 gms in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 10 lbs pressure (115°C) for 15 minutes. Cool to 45°C and add 57 ml of sterile 10% aqueous citric acid. Mix well before pouring into sterile petri plates. Do not reheat after addition of citric acid.					
Principle :					
Dextrose Salt Agar is prepared according to the standard formula 31 of the International Dairy Federation. It is used for enumeration of yeasts and molds in butter and other dairy products. Yeast extract and dextrose provide growth nutrients. A 2.5 gm sample of chilled butter is diluted with 5ml of quarter strength Ringer's solution. Plates are poured by addition of 0.2ml of the solution which corresponds to 0.1 gm butter. Plates are incubated at 30°C for 2 days. If growth is not visible then incubation is continued at 30°C for 3 days and visible colonies of yeasts and molds are counted.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		6.6 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 48-72 hrs.at 30°C.					
MICROORGANISM (ATCC)		GROWTH			
Aspergillus niger (16404)		Good - luxuriant			
Candida albicans (10231)		Good - luxuriant			
Saccharomyces cerevisiae (9763)		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 enumeration of yeasts and molds in butter and other dairy products.				
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
B487	35g/l	14.28L	6.6 ± 0.2	10% aqueous citric acid	115°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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