

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B299	PLATE COUNT AGAR (POUR PLATE TECHNIQUE)				
Formula					
Ingredients:		gms/lit.			
Casein enzymichydrolysate	5.00				
Yeast extract		2.50			
Dextrose		1.00			
Agar	9.00				
Final pH (at 25°C) :	7.0 ± 0.2				
Directions :					
Suspend 17.5 grams in 1000 ml purified / 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 :					
Plate count agar contains Casein enzymic hydrolysate and Yeast extract which provide the carbon and nitrogen sources required for growth of a wide variety of organisms. Dextrose is a source of fermentable carbohydrate (energy source). Agar is a 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) :	Light yellow				
Clarity (post autoclaving/heating) :	Clear to slightly opalescent				
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 – 24 hrs at 35 – 37°C.					
MICROORGANISM (ATCC)	GROWTH				
Bacillus subtilis (6633)	Luxuriant				
Escherichia coli (25922)	Luxuriant				
Lactobacillus casei (9595)	Luxuriant				
Staphylococcus aureus (25923)	Luxuriant				
Enterococcus faecalis (29212)	Luxuriant				
Streptococcus pyogenes (19615)	Luxuriant				
Lactobacillus acidophilus (4356)	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 determining plate counts of microorganisms in milk and dairy products by pour plate technique.				
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
B299	17.5g/l	28.571L	7.0 ± 0.2	NIL	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 BIOMARKLABORATORIES publications.

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