

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1158	CALCIUM CASEINATE AGAR					
Formula						
Ingredients :		gms/lit.				
Peptic digest of Animal tissue		4.00				
Meat extract		2.00				
Casein enzymichydrolysate		2.00				
Calcium caseinate		3.50				
Calcium chloride,2 H ₂ O		0.20				
Tripotassium citrate, 2H ₂ O		0.35				
Disodium hydrogen phosphate		0.105				
Potassium dihydrogen phosphate		0.035				
Sodium chloride		5.00				
Agar		13.00				
Final pH (at 25°C) : 7.0± 0.2						
Directions :						
Suspend 30.19gms. in 1000 ml. distilled water. Boil gently while frequently shaking until suspension boils. Boil for 10 minutes. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Mix thoroughly while pouring sterile petriplates to suspend precipitate. If desired to increase turbidity add 5-10 gm.of skim milk before heating.						
Principle :						
The medium contains the ingredients like calcium caseinate, meat extract and petic digest of animal tissue to support the growth. Phosphates act as buffering agents.						
QC Tests - (I)Dehydrated Medium						
Colour :		Yellow brownish				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.0± 0.2				
Colour (post autoclaving/heating) :		Medium amber				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 -48 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH				
Bacillus cereus ATCC 14579		Good-luxuriant				
Escherichia coli ATCC 25922		Good				
Proteus vulgaris ATCC 13315		Good				
Pseudomonas aeruginosa ATCC 27853		Good				
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 detection and enumeration of proteolytic microorganisms in foodstuffs and other materials.						
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
B1158		30.19 g/l	16.56L	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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