

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1451	BACILLUS CEREUS AGAR BASE-PEMBA			
Formula				
Ingredients:		gms/lit.		
Peptone		1.00		
D-Mannitol		10.00		
Sodium chloride		2.00		
Magnesium sulphate		0.10		
Disodium hydrogen phosphate		2.50		
Potassium Dihydrogen phosphate		0.25		
Sodium pyruvate		10.00		
Bromo thymol blue		0.12		
Agar		15.00		
Final pH (at 25°C): 7.2 + 0.2				
Directions:				
Suspend 20.5 gms. in 475 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 minutes. Cool to 50°C and aseptically add rehydrated contents of 1 vial of Polymyxin B Selective Supplement (BF005) and 25 ml. of sterile Egg Yolk Emulsion (BF003). Mix well and pour into sterile petriplates.				
Principle:				
Addition of Polymyxin –B Sulphate at a final concentration of 100 units per ml of medium is sufficient to make the medium selective for the isolation of Bacillus cereus. If molds are suspected in the inoculum, 40 mcg per ml of filter-sterilized, Cycloheximide may be incorporated to suppress the mold contamination. Some strains of Bacillus cereus have very weak egg yolk reaction. Moreover, on this medium Bacillus cereus is indistinguishable from Bacillus thuringiensis. Peptone and sodium pyruvate improve egg yolk precipitation and enhance sporulation. Bromo thymol blue act as pH indicator to detect mannitol fermentation. Agar is the solidifying agent.				
QC Tests – (I) Dehydrated Medium				
Colour:		Greenish cream to greenish yellow		
Appearance:		Homogeneous Free Flowing powder		
(II) Rehydrated medium				
pH (post autoclaving/heating):		7.2 ± 0.2		
Colour (post autoclaving/heating):		A) Basal medium: Green B) (After addition of 5% egg yolk emulsion): Yellowish green		
Clarity (post autoclaving/heating):		A) Clear to slightly opalescent B) Opaque		
(III) Q.C. Test Microbiological				
Cultural characteristics observed after 18-24 hrs at 35-37°C.				
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY	EGG YOLK REACTION	
Bacillus cereus (11778)	Good-luxuriant	Blue	Precipitation	
Staphylococcus aureus (25923)	Good-luxuriant	Yellow	Clearing	
Escherichia coli (25922)	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 selective isolation, detection and enumeration of Bacillus cereus. Recommended by ISO 7932:1993			
Storage:	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.			

Refer disclaimer Overleaf

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Packing:	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1451	41.0g/l	12.19 L	7.2 + 0.2	Polymyxin B Selective Supplement and 25 ml. of sterile Egg Yolk Emulsion	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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