

TECHNICAL SHEET

PP035	Bacillus cereus Selective Agar Base (MYP)		
Formula			
Ingredients:		gms/lit.	
Enzymatic digest of casein	10.00		
Meat Extract B#	1.00		
D-Mannitol	10.00		
Sodium chloride	10.00		
Phenol red	0.025		
Agar	15.00		
# Equivalent to Beef extract			
Final pH (at 25°C): 7.2± 0.2			
Directions:			
Label the ready to use plate (PP035). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.			
Principle:			
It contains enzymatic digest of casein and beef extract, which provide nitrogen source. Mannitol fermentation can be detected by phenol red, which yields yellow color to the mannitol fermenting colonies due to acid production. Added egg yolk emulsion helps in differentiation of lecithinase producing colonies, which are surrounded by a zone of white precipitate. Added egg yolk emulsion helps in differentiation of lecithinase producing colonies, which are surrounded by a zone of white precipitate. Addition of Polymyxin B Sulphate (BF005) helps to restrict growth of gram-negative bacteria. These differentiating media allow differentiation of <i>B.cereus</i> from other <i>Bacillus</i> species by its inability to ferment mannitol and poor sporulation. Some strains of <i>Bacillus cereus</i> have very weak egg yolk reaction.			
(I) QC Tests			
pH:	7.2 ± 0.2		
Color:	Light orange to pink colored opaque gel		
Appearance:	Sterile <i>Bacillus cereus</i> Agar Base (MYP) in 85mm disposable plates.		
(II) Sterility test		Passes release criteria	
(III) Q.C. Test Microbiological			
Cultural characteristics observed with added Egg Yolk Emulsion (BF003) and Polymyxin B Sulphate (BF005) Cultural characteristics observed after 18-48 hrs. at 30±2°C.			
MICROORGANISM (ATCC)	GROWTH	COLOR OF COLONY	LECITHINASE ACTIVITY
<i>Bacillus cereus</i> 10876	luxuriant	Red	positive, opaque zone around the colony
<i>Staphylococcus aureus</i> 25923	luxuriant	Yellow	positive, opaque zone around the colony
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i> 6633	luxuriant		negative
<i>Escherichia coli</i> 25922	none-poor	-	-
<i>Proteus mirabilis</i> 25933	luxuriant	Red	negative
<i>Pseudomonas aeruginosa</i> 27853	none-poor	-	-

Refer disclaimer Overleaf

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Precautions :	1. In Vitro diagnostic use only. 2. Read the label before opening the container
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:	This medium is used for isolation and identification of Bacillus species and pathogenic Staphylococci.
Storage:	Store between 15-25°C. Use before expiry date on the label.
Packing:	20/50 disposable plates.

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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