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TECHNICAL SHEET

B1450	BACILLUS CEREUS SELECTIVE AGAR BASE (MYP)							
Formula								
Ingredients:	gms/lit.							
ISO specifications: MY	YP	B1450 -Bacillus cereus Selective Agar Base (MYP)						
Ingredients Enzymatic digest of cas	g / L ein 10.000	Ingredients Enzymatic digest of casein	g / L 10.00					
Beef extract D-Mannitol Sodium chloride Phenol red Agar	1.000 10.000 10.000 0.025 12.0-18.0	Meat Extract B D-Mannitol Sodium chloride Phenol red Agar # Equivalent to Beef extract	1.00 10.00 10.00 0.025 15.00					
Polymyxin B sulphate	50,000 units	2 vials of sterile Polymyxin B Su Polymyxin B sulphate 100 ml sterile Egg Yolk Emulsion	50,000 units on (BF003)					
Egg yolk emulsion Final pH	100.00ml 7.2±0.2	Egg yolk emulsion Final pH	100.00ml 7.2±0.2					

Final pH (at 25°C): 7.2 ± 0.2

Directions:

Suspend 46.03 gram in 900 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. Aseptically add rehydrated contents of 2 vials of sterile Polymyxin B sulphate Selective Supplement (BF005) solution and 100 ml sterile Egg Yolk Emulsion (BF003). Mix well and pour into sterile Petri plates.

Principle:

It contains Enzymatic digest of casein and Meat Extract B, which provide nitrogen source. Mannitol fermentation can be detected by phenol red, which yields yellow colour 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. Addition of Polymyxin B Sulphate (BF005) helps to restrict growth of gram-negative bacteria such as Escherichia coli and Pseudomonas aeruginosa. These differentiating media allow differentiation of B.cereus from other Bacillus species by its inability to ferment mannitol and poor sporulation. Some strains of Bacillus cereus have very weak egg yolk reaction.

egg york reaction.				
QC Tests – (I)Dehydrated Medium				
Colour:	Light yellow to pinkish purple			
Appearance:	Homogeneous Free Flowing powder			
(II)Rehydrated medium				
pH (post autoclaving/heating):	7.2 ± 0.2			
Colour (post autoclaving/heating):	A) Basal medium: Red			
	B) (After addition of 5% egg yolk emulsion): Light orange			
Clarity (post autoclaving/heating):	A) Clear to slightly opalescent			
	B) Opaque			
(III)Q.C. Test Microbiological				
Cultural characteristics observed with added Egg Yolk Emulsion (BF003) and Polymixin B				
Supplement (BF005) after incubation at 30 ± 1 °C for 24 ± 3 to 44 ± 4 hours.				

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	MICROORGAN	NISM (ATCC)	GROW	TH	Characteristic reaction				
	Bacillus subtilis	s (ATCC 6633)	luxurian	ıt	vellow colonies with precipitation		n halo		
	Escherichia col	i (25922)	Inhibitio	on	-				
	Bacillus cereus	ATCC 11778	luxurian	ıt	Pink colonies with precipitation halo				
Precautions:	tions: 1. For Laboratory Use.								
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.								
Limitations:	1. Individual organisms differ in their growth requirement and may show variable growth patterns on								
	the medium.								
	2. Each lot of the medium has been tested for the organisms specified on the COA. It is								
	recommended to users to validate the medium for any specific microorganism other than								
	mentioned in the COA based on the user's unique requirement. It is advised to transfer the								
	suspected colonies to a fresh medium to visualize the true reaction.								
	Recommended for the isolation and identification of Bacillus species and pathogenic Staphylococci. The								
Use: composition and performance criteria of this medium are as per the specification							n laid down in ISO		
	7932:2004/ Amd 1:2020, ISO 11133:2014 (E) & Amd: 2020.								
Storage :	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.								
Packing:	500 gm. bottle								
Product	Reconstitution		ration	pH (25°C)	Supplement		Sterilization		
profile:		(500g)							
B1450	46.03 g/l	9.776 L	ľ	7.2 ± 0.2	PolymyxinB		121°C / 15 minutes		
					Supplement (BF0				
					100 ml of sterile				
					emulsion (BF003)			

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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