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## **TECHNICAL SHEET**

B1450 BACILLUS CEREUS AGAR BASE-MYP								
Formula								
Ingredients:		gms/lit.						
Enzymatic digest	digest of casein 10.00							
Beef extract	1.00							
D-Mannitol	l 10.00							
Sodium chloride		10.00						
Phenol red	0.025							
Agar		15.00						
Final pH (at 25°C) : 7.2 + 0.2								
Directions :								
Suspend 46.03 grams in 900 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize								
by autoclaving a	t 15 lbs pressure (12	1°C) for 15 r	minutes. Coo	I to 45-50°C. Aseptically add rehydrated				
contents of 2 via	ls of sterile Polymyxin	B Sulphate (	BF005) solut	ion and 100 ml sterile Egg Yolk Emulsion				
(BF003). Mix well	and pour into sterile	Petri plates.						
Drinciple -								
It contains enzy	matic digest of cas	ein and hee	f extract w	hich provide nitrogen source Mannitol				
fermentation can	he detected by pheno	I red which v	vields vellow o	colour to the mannitol fermenting colonies				
due to acid produ	iction Added era vol	z emulsion he	Ins in differe	ntiation of lecithinase producing colonies				
which are surrounded by a zone of white procipitate. Added eag yolk emulsion below in differentiation of								
locithings producing colonies, which are surrounded by a zone of white precipitate. Addition of Polymyvin								
B Sulphate (BEO)	()5) being to restrict a	rowth of arar	n-negative h	acteria. These differentiating media allow				
differentiation of	B cereus from othe	r Bacillus sn	acies hv its	inability to ferment mannitol and noor				
coordination Som	o strains of Bacillus co	rous bayo yor		volk reaction				
OC Tests - (I)Deb	e strains of Dacinus ce		y weak egg y					
	iyulated Mediulli	Light vollow	Light vollow to pinkich purplo					
Appearance :		поттоденее	Homogeneous Free Flowing powaer					
(II)Renyaratea m		7 2 4 0 2						
pH (post autoclaving/heating) :		$7.2 \pm 0.2$	7.2 ± 0.2					
Colour (post autoclaving/heating) :		A) Basal m	A) Basal medium: Red					
	B) (After ad	B) (After addition of 5% egg yolk emulsion): Light orange						
Clarity (post a	autoclaving/heating) :	<ul> <li>A) Clear to</li> </ul>	A) Clear to slightly opalescent					
		B) Opaque						
(III)Q.C. Test M	licrobiological							
Cultural characteristics observed with added Egg Yolk Emulsion (BF003) and Polymyxin B Sulphate								
(BF005) Cultu	iral characteristics obs	erved after 18	3-48 hrs at 30	0±2°C.				
MICROORGANISM (ATCC )		GROWTH	COLOUR OF	LECITHINASE ACTIVITY				
			COLONY					
Bacillus cereus (10876)		luxuriant	Red	positive, opaque zone around the colony				
Bacillus subtilis (6633)		luxuriant	Yellow	Negative				
Staphylococcus aureus (25923)		luxuriant	Yellow	positive, opaque zone around the colony				
Escherichia coli (25922)		none-poor	-	-				
		- nono noor						
Pseudomonas	s aeruginosa (27853)	none-poor	-	-				
Precautions :	1. For Laboratory Us	e.						
	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 : It is used for isolation and identification of Bacillus species and pathogenic Staphy				lus species and pathogenic Staphylococci.				
	The composition and	The composition and performance criteria of this medium are as per the specification laid						
	down in ISO 7932:20	down in ISO 7932:2004.						
Storage :	Dehydrated medium-	below 30°C P	repared medi	um- Between 2 to 8°C.				
Packing :	500 gm. bottle							
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Product profile:	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization
		Preparation (500g)			
B1450	51.14 g/l	9.776 L	7.2 <u>+</u> 0.2	Polymyxin B	121ºC / 15 minutes
				Selective	
				Supplement	
				(BF005)and 100	
				ml of sterile Egg	
				Yolk emulsion	
				(BF003)	