BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B938 BACILLUS C	BACILLUS CEREUS AGAR BASE				
Formula					
Ingredients:	gms/lit.				
Peptone	1.00				
Mannitol	10.00				
Sodium chloride	2.00				
Magnesium sulphate	0.10				
Disodium phosphate	2.50				
Monopotassium phosphate	0.25				
Sodium pyruvate	10.00				
Bromo thymol blue	0.12				
Agar	15.00				
Final pH (at 25°C): 7.2 <u>+</u> 0.2					

Directions:

Suspend 20.5 grams in 475 ml 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 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 Petri plates.

Principle:

Peptone provides and sodium pyruvate improve egg yolk precipitation and enhance sporulation. Bromothymol blue acts as pH indicator to detect mannitol fermentation. 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.

QC	Tests - (I)Deh	ydrated Medium							
	Colour:			Greenish cream to greenish yellow					
	Appearance :			Homogeneous Free Flowing powder					
(II))Rehydrated m	edium							
	pH (post autoclaving/heating):			7.2 ± 0.2					
				A) Basal medium : Green					
				B) (After addition of 5% egg yolk emulsion): Yellowish green					
				A) Clear to slightly opalescent					
				B) Opaque					
(II		icrobiological							
	Cultural characteristics observed with added Polymyxin B Selective Supplement (BF005) and Egg								
<u> </u>	Emulsion (BF003) after an incubation								
	MICROORGANIS			ROWTH		ROF COLONY			
	Bacillus cereus			Good-luxuriant			Positive, precipitation		
				Good-luxuriant			Negative		
				Good-luxuriant			Positive,clearing		
				Good-luxuriant		ight pink	Negative		
			nhibited						
		1. For Laboratory Use.							
2. Follow proper, est infectious materials.				tablished laboratory procedures in handling and disposing of					
Limitations : 1. Some strains of Ba			of Bac	illus cereus may show poor growth due to nutritional variations.					
				nd Bacillus thuringiensis shows identical characteristics and hence					
		difficult to ident							
								cs and reaction,	
	however further biochemical characteristics should be shouls be carried out								
confirmation.									
Us				detection and enumeration of Bacillus cereus.					
	orage :		dium-b	elow 30°C Prepared medium- Between 2 to 8°C.					
	cking :	500 gm. bottle			1 -	T		1	
Product profile:			Quant Prepar	ity on ration (500g)	pH (25°C)			Sterilization	
B938		40.97 g/l		12.204 L	7.2 <u>+</u> 0.2	BF005 & BF003		121°C / 15 minutes	
		1			1	1		1	