## **BIOMARK Laboratories-INDIA**

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## **TECHNICAL SHEET**

MODIFIED AEA SPORULATION MEDIUM BASE

Formula								
Ingredients:		gms/lit.						
Biopeptone		10.00						
Yeast extract		10.00						
Disodium phospha	ate	4.36						
Monopotassium p		0.25						
Ammonium aceta		1.50						
Magnesium sulpha		0.20						
Final pH (at 25°C): 7.8 <u>+</u> 0.2								
Directions :								
Suspend 26.31 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely								
Dispense the medium in 15 ml amounts in screw capped tubes and sterilize by autoclaving at 15 lbs								
pressure (121°C) for 15 minutes. Cool to 45-50°C and add 0.6 ml of filter sterilized 10% raffinose and								
0.2 ml each of sterile 0.66 M sodium carbonate and 0.32% cobalt chloride dropwise to each 15 ml base								
medium in the tubes. Just before using, steam the medium for 10 minutes and after cooling, add 0.2 ml								
of filter sterilized (freshly prepared) 1.5% sodium ascorbate to each tube of the medium.								
Principle:								
Biopeptone and yeast extract serve as essential sources of nutrients required by bacterial metabolism.								
Disodium phosphate buffers the medium well. Ammonium acetate, cobalt chloride, sodium carbonate and								
magnesium sulphate serve as sources of ions required for sporulation. Raffinose is the fermentable								
carbohydrate. C. perfringens ferments raffinose to produce acid.								
QC Tests - (I)Deh								
Colour :	Cream to yellow							
Appearance :			Homogeneous Free Flowing powder					
(II)Rehydrated medium								
pH (post autoclaving/heating) :			$7.8 \pm 0.2$					
Colour (post autoclaving/heating) :			Yellow					
Clarity (post autoclaving/heating):			Clear to slightly opalescent					
		Clear to s	o siightiy opuleseene					
(III)Q.C. Test Microbiological  Cultural characteristics observed after an incubation at 35-37°C for 48-72 hours with added sterile								
10% raffinose, sodium carbonate and cobalt chloride solution and sodium ascorbate solution								
MICROORGANISM (ATCC )		GROWTH				SPORULATION (OBSERVED BY EXAMINING STAINED SLIDES)		
Clastridium narfringana (12024)		1) Cood Juvuriant			ON LAMIN	•		
Clostridium perfringens (12924) Good - Clostridium sporogenes (11437) Good -				+		+		
		iuxuriani	_		+			
Precautions :	1. For Laboratory Use.							
	2. Follow proper, established laboratory procedures in handling and disposing of							
	infectious materials.							
Limitations :	, ,,							
	encountered that fail to grow or grow poorly on this medium.							
Use:	For early sporulation of Clostridium perfringens from foods.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing:	500 gm bottle				1			
Product profile: Reconstitution				pH (25°C)	Suppleme	nt	Sterilization	
		Preparation						
B693	26.31 g/l	19.0	04L	$7.8 \pm 0.2$	10% raffino		121°C / 15 minutes	
					,0.66M sodii	ım		
					carbonate,			
					0.32% coba			
					chloride and			
					1.5% sodiur	n		
					ascorbate			
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#### Disclaimer:

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