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B683	PHENYLALANINE AGAR						
Formula							
Ingredients : gms/lit.							
Yeast extract		3.0	00				
Sodium chloride	5.00						
DL-Phenylalanine	DL-Phenylalanine 2.00						
Disodium phosphate 1.00							
Agar 15.00							
Final pH (at 25°C) : 7.3 <u>+</u> 0.2							
Directions :							
Suspend 26 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense							
in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the tubed medium to							
cool in a slanting position.							
Principle :							
Yeast extract in the medium supports the growth of the organisms. Sodium chloride maintains osmotic							
equilibrium. The phenylalanine serves as the substrate for enzymes, which are able to deaminate it to form							
phenylpyruvic acid. A recommended technique is to inoculate the slant surface with plenty of inoculum and							
incubate it for 12-16 hours. After incubation, add 0.2 ml of 10% ferric chloride solution so that the solution							
floods all over the growth. The addition of (0.2 ml 3-5 drops) of a 10% aqueous ferric chloride solution (or							
a 12% aqueous ferric chloride solution acidified with 2.5 ml of concentrated HCl per 100 ml of reagent) to							
the cultures following incubation results in the appearance of a light to deep green color (positive reaction)							
or no color change (negative reaction).							
QC Tests – (I)Dehydrated Medium							
Colour :		Cream to yellow					
Appearance :	Homogeneou	us Free Flowing	g powder				
(II)Rehydrated medium							
pH (post autoclaving/heating) : 7.3 ± 0.2							
Colour (post au	Light amber	ght amber					
Clarity (post autoclaving/heating) : Sligthly opalescent							
(III)Q.C. Test Microbiological							
Cultural characteristics observed after an incubation at 35-37°C for 12-16 hours							
MICROORGANISM (ATCC) GRC			WTH PHENYLALANINE DEAMINASE				
Enterobacter aerogenes (13048) Luxu			uriant -				
Escherichia coli (25922) Luxu			uriant -				
Proteus vulgaris (13315)			uriant +, Gro	riant +, Green colouration after addition of 10% ferric chloride			
Proteus mirabili	uriant +, Gr	ant +, Green colouration after addition of 10% ferric chloride					
Providenicia alcalifaciens (9886) Luxuriant +, Green colouration after addition of 10% ferric chloride							
Precautions : 1	1. For Laboratory Use.						
2	2. Follow proper, established laboratory procedures in handling and disposing of						
ir	infectious materials.						
Limitations : 1	imitations : 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
e							
2. Interpret the results within 5 minutes upon addition of reagent as the green colour						the green colour	
fa	fades quickly.						
3. Certain species rapidly deaminate phenylalanine, allowing for a positive test result						sitive test result	
within 4 hours of incubation.							
Used for the differentiation of Proteus and Providencia group of organisms from other							
members of Enterobacteriaceae on the basis of their ability to form phenyl pyruvic aci						henyl pyruvic acid	
fi	from phenylalanine.						
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing : 5	500 gm. bottle						
Product profile: R	duct profile: Reconstitution Quantity		y on	pH (25°C)	Supplement	Sterilization	
-		<u>Prepar</u> a	tion (500g)				
B683	26g/l	1	9.230L	7.3 ± 0.2	NIL	121ºC / 15 minutes	

Refer disclaimer Overleaf

page 01 of 02

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Page 02 of 02