BIOMARK Laboratories-INDIA

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B484 DECARBOXYLASE TEST MEDIUM BASE (FALKOW)											
Formula											
Ingredients: gms/lit.											
Peptic digest of animal tissue 5.00											
Ye	ast extract		3.00								
Br	omocresol nurnl	e	0.02								
Fir	nal pH (at 25°C)	: 6.8 + 0.2	0.07								
Directions:											
Sι	Suspend 9.02 grams in 1000 ml distilled water. Heat, if necessary to dissolve the medium completely.										
Di	Divide into four equal parts. One part is tubed without addition of any amino acid. To the remaining three										
parts, add separately 3 amino acids, L-lysine hydrochloride, L-arginine hydrochloride and L-ornithine											
ny sta	nyarocnionae to a final concentration of 0.5%. Dispense in 3-4 ml quantities in screw capped tubes and sterilize by autoclaving at 15 lbs pressure (121%) for 15 minutes. To avoid false alkalinization at the										
su	surface of medium it is recommended to add liquid paraffin to a height of about 5mm before sterilization.										
Pr	Principle:										
De	Dextrose is fermented by the enteric bacteria resulting in acidic pH. Bacteria which produce lysine or										
or	nithine or argin	ine decarboxylas	se will p	roduce alkaline p	roducts and increase the	pH. The resulting					
re	action after 24	-96 hours will ir	ndicate a	in alkaline reaction	on seen as purple colour	for decarboxylase					
producing bacteria and an acid pH (yellow) by the bacteria not producing decarboxylase											
QC lests - (1)Dehydrated Medium				Light vellow to greenich vellow							
				Homogeneous Free Flowing powder							
(11	()Rehydrated me	edium									
pH (post autoclaving/heating):				6.8 ± 0.2							
Colour (post autoclaving/heating):	Purple							
Clarity (post autoclaving/heating):	Clear solution wit	hout any precipitate in tubes						
(III)Q.C. Test Microbiological											
	Cultural charact	teristics observed	after inc	cubation at 35-37°	°C for upto 4 days with add	tion of appropriate					
	MICROORGANISM	A (ATCC)	Argini	Sterlie Mineral OII.							
MICROORGANIS		(AICC)	decarbo	xvlation		decarboxylation					
	Citrobacter freu	ındii(8090)	variable reaction		variable reaction	negative					
						reaction, yellow					
						colour					
Enterobacter aero		erogenes(13048)	negative reaction, yellow		positive reaction, purple	positive reaction,					
	Eccharichia coli (25022)		colour		colour	purple colour					
						purple colour					
	Klebsiella pneumoniae (13383)		negative reaction, yellow		negative reaction, yellow	positive reaction,					
			colour		colour	purple colour					
	Proteus mirabilis (25933)		negative reaction, yellow		positive reaction, purple	negative					
			colour		colour	reaction, yellow					
			a a a stille and stille a sullaw.		nonstive repetion vellow	colour					
	Proteus vulgaris (13315)		colour	reaction, yenow	colour	reaction vellow					
			coloui		colour	colour					
	Salmonella Paratyphi A (9150)		Delayed positive reaction,		positive reaction, purple	negative					
			purple colour		colour	reaction, yellow					
						colour					
	Salmonella Typhi (6539)		delayed positive reaction		negative reaction, yellow	positive reaction,					
	Serratia marcoscono (8100)		/ negative reaction		colour	purple colour					
1	Serratia marcescens (8100)		colour		colour	purple colour					
 	Shigella dysenteriae (13313)		negative reaction/		negative reaction, vellow	negative					
			delayed positive reaction		colour	reaction, yellow					
						colour					
Shigella flexneri (12022)		i (12022)	negative reaction/		negative reaction, yellow	negative					
		delayed positive reaction		colour	reaction, yellow						
Shigella sonnei (259331		variable reaction		positive reaction purple	negative						
		1 (200001	variable	reaction	colour	reaction, vellow					
						colour					
Precautions : 1. For Laboratory			Use.								
		2. Follow proper, established laboratory procedures in handling and disposing of infectious									
Limitations : 1. Since the nutritional requirements of organisms vary					ns vary, some strains may he	encountered that fail					
		to grow or grow poorly on this medium.									
Use:		It is used for testing decarboxylase activity.									

Refer disclaimer Overleaf

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Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing:	500 gm bottle							
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization			
B484	9.02 g/l	55.43 L	6.8 <u>+</u> 0.2	L-lysine hydrochloride, L- arginine hydrochloride and L-ornithine hydrochloride	121°C/ 15 minutes			

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. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

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