## **BIOMARK Laboratories-INDIA**

## www.biomarklabs.com

## **TECHNICAL SHEET**

B483 DECARBOXYLASE AGAR BASE										
Formula										
Ingredients : gms/lit.										
Peptic digest of animal tissue 5.00										
Yeast extract		3.00								
Dextrose		1.00								
Bromo cresol		0.02								
Agar	· ·									
Final pH (at 25°C): 6.5 <u>+</u> 0.2										
Directions :										
	gms.in 1000 ml. distilled									
desired L-Amino acid (L-Lysine, L-Arginine, L-Ornithine) in hydrochloride form per litre of the medium.										
Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Dispense into sterile test tubes and										
cool in a slanted position .When L-ornithine hydrochloride is used, readjustment of pH is necessary.										
Principle:										
Peptic digest of animal tissue and yeast extract supply nitrogenous nutrients for the bacterial growth.										
Dextrose is the fermentable carbohydrate. Bromo cresol purple is the pH indicator which changes colour										
from purple to yellow in acidic condition. Decarboxylase activity is stimulated by acidic pH and hence the										
amino acids are decarboxylated or degraded to form corresponding amine. Production of these amines										
increases the pH of the medium changing the colour of the indicator and in turn the medium from yellow										
to purple violet. To obtain proper reactions, inoculated tubes must be protected from the air. This is done										
to avoid false alkalinization at the surface of the medium, which could cause a decarboxylase negative bacteria to appear to be positive. This can be done by overlaying a medium with sterile mineral oil.										
			by overlaying a	illedidili With Ste	ille Illillerai oli.					
QC Tests - (I)Dehydrated Medium  Colour: Creamish yellow										
Appearance			Homogeneous Free Flowing powder							
(II)Rehydrate		Tiomog	jeneous rree riowing powder							
	toclaving/heating):	6.5 ±	n 2							
	st autoclaving/heating):	Purple	J.Z							
	st autoclaving/heating):	Clear								
	st Microbiological	Cicai								
	naracteristics observed after	r unto 4 da	vs at 35-37°C.							
	ANISM (ATCC )	LYSINE								
	r freundii (8090)	-	±	±						
	ter aerogenes (13048)	+	_	+						
	a coli (25922)	±	±	±						
	pneumoniae (13883 )	+	-	_						
	irabilis (25933)	-	-	+						
	llgaris (6380)	-	-	-						
	a paratyphi A	-	(+) or +	+						
	typhi ( 6539 )	+	(+) or -	-						
	exneri (12022)	-	- or (+)	-						
	onnei (25931)	-	±	+						
	senteriae (13313 )	-	- or (+)	-						
	Serratia marcescens (8100)		- '	+						
	negative reaction, yellow co	+ olour								
	nositive reaction, number of									

i positive reaction, purple colour								
(+)= delayed positive reaction								
± = variable								
Precautions :	1. For Laboratory Use.							
	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:	For differentiation of bacteria on the basis of their ability to decarboxylate the amino							
	acid added to the medium.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing:	500 gm bottle							
Product profile:		Quantity on Preparation (500	)g)	pH (25°C)	Supplement	Sterilization		
B483	24g/l	20.83L	-		Amino acid as desired	121°C / 15 minutes		

+ = positive reaction, purple colour

## 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.

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