

**BIOMARK Laboratories-INDIA**  
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**TECHNICAL SHEET**

<b>B633</b>		<b>MOELLER DECARBOXYLASE BROTH WITH ARGININE HYDROCHLORIDE</b>	
<b>Formula</b>			
<b>Ingredients :</b>		<b>gms/lit.</b>	
Peptic digest of animal tissue		5.00	
Meat Extract B#		5.00	
Dextrose		0.50	
Bromo cresol purple		0.01	
Cresol red		0.005	
Pyridoxal		0.005	
L-Arginine hydrochloride		10.00	
# - Equivalent to Beef extract			
Final pH (at 25°C) : 6.0 ± 0.2			
<b>Directions :</b>			
Suspend 20.52 gms in 1000 ml. distilled water. Heat to dissolve the medium completely. Dispense in 5ml. amount in screw-capped tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes.			
<b>Principle :</b>			
This medium contains Meat Extract B and peptic digest of animal tissue which provide nitrogenous nutrients for the growth of bacteria. Dextrose is the fermentable carbohydrate and pyridoxal is the co-factor for the decarboxylase enzyme. Bromo cresol purple and cresol red are the pH indicators in this medium.			
<b>QC Tests – (I) Dehydrated Medium</b>			
Colour :		Light to medium yellow	
Appearance :		Homogeneous Free Flowing powder	
<b>(II) Rehydrated medium</b>			
pH (post autoclaving/heating) :		6.0 ± 0.2	
Colour (post autoclaving/heating) :		Purple	
Clarity (post autoclaving/heating) :		Clear	
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after upto 4 days 35 – 37°C.			
MICROORGANISM (ATCC )		ARGININE	
Citrobacter freundii (8090)		±	
Enterobacter aerogenes (13048)		-	
Escherichia coli (25922)		±	
Klebsiella pneumoniae (13883 )		-	
Proteus vulgaris (13315 )		-	
Proteus mirabilis (25933)		-	
Pseudomonas aeruginosa (9027)		+	
Salmonella paratyphi A		(+) or +	
Salmonella typhi ( 6539 )		(+) or -	
Shigella flexneri (12022)		- or (+)	
Shigella sonnei (25931)		±	
Shigella dysenteriae (13313 )		- or (+)	
Serratia marcescens (8100)		-	
Key : + = positive reaction, purple colour - = negative reaction, yellow or no colour change ± = variable (+) = delayed positive reaction			

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<b>Precautions :</b>	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	Moeller Decarboxylase Broth Base with L-Arginine hydrochloride is used to differentiate bacteria on the basis of their ability to decarboxylate the L-Arginine hydrochloride.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm. bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
	<b>B633</b>	20.52g/l	24.366L	6.0 ± 0.2	NIL

**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 BIOMARK LABORATORIES publications.

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