

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B635		MOELLER DECARBOXYLASE BROTH WITH ORNITHINE HYDROCHLORIDE			
Formula					
Ingredients :		gms/lit.			
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-Ornithine hydrochloride		10.00			
# - Equivalent to Beef extract					
Final pH (at 25°C) : 6.0 ± 0.2					
Directions :					
Suspend 20.52 gms in 1000 ml. distilled water. Heat to dissolve the medium completely. When L-Ornithine is added, readjustment of the pH is required. Dispense in 5ml. amount in screw-capped tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes.					
Principle :					
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.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light to medium yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		6.0 ± 0.2			
Colour (post autoclaving/heating) :		Purple			
Clarity (post autoclaving/heating) :		Clear			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after upto 4 days 35 – 37°C.					
MICROORGANISM (ATCC)		ORNITHINE			
Citrobacter freundii (8090)		±			
Enterobacter aerogenes (13048)		+			
Escherichia coli (25922)		±			
Klebsiella pneumoniae (13883)		-			
Proteus vulgaris (13315)		-			
Proteus mirabilis (25933)		+			
Pseudomonas aeruginosa (9027)		-			
Salmonella paratyphi A		+			
Salmonella typhi (6539)		-			
Shigella flexneri (12022)		-			
Shigella sonnei (25931)		+			
Shigella dysenteriae (13313)		-			
Serratia marcescens (8100)		+			
Key : + = positive reaction, purple colour - = negative reaction, yellow or no colour change ± = variable (+) = delayed positive reaction					

Refer disclaimer Overleaf

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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 :	Moeller Decarboxylase Broth Base with L-Ornithine hydrochloride is used to differentiate bacteria on the basis of their ability to decarboxylate the L-Ornithine hydrochloride.				
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
	B635	20.52g/l	24.366L	6.0 ± 0.2	NIL

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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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